



Solar-Geophysical Data comprehensive reports

Data for October 2004 and Miscellaneous

Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

NEW DATA:

**ACE Solar Wind, Interplanetary Magnetic Field and
Particles -- Monthly Plots**

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World-Wide Web	http://www.ngdc.noaa.gov
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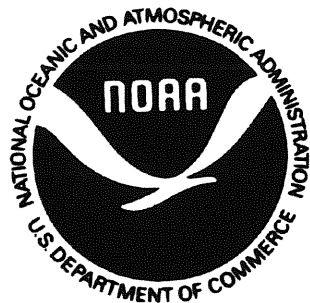
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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE,
DATA, AND INFORMATION SERVICE

NATIONAL GEOPHYSICAL
DATA CENTER

BOULDER,
COLORADO



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Data for October 2004 and Late Data

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NATIONAL GEOPHYSICAL DATA CENTER

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Boulder, Colorado

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SOLAR-GEOPHYSICAL DATA

Number 728
(Issued in Two Parts)

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ACE SOLAR WIND, INTERPLANETARY MAGNETIC FIELD AND PARTICLES	
-- MONTHLY PLOTS	

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F.1m	Cosmic Ray Neutron Cts (Haleakala)	722A114	723A100	724A115	725A105	726A102	727A 97	728A 96	
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Oct 04

H α SOLAR FLARES

OCTOBER 2004

[illegible]

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/USAF				Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
						Region	Mo	CMP Day	Apparent (10-6 Disk)							Corr (Sq Deg)		
		19	0949		1020	No Flare	Patrol											
		19	1041		1354	No Flare	Patrol											
		19	1511		1630	No Flare	Patrol											
		19	2006		2025	No Flare	Patrol											
		19	2113		2127	No Flare	Patrol											
		19	2208		2218	No Flare	Patrol											
		19	2223		2235	No Flare	Patrol											
0002	LEAR	20	0212	0213	0227	S13 W23	10682	10	18.3	15	SF		3	E			31	F
0003	KANZ	20	1047	1054	1058	N09 E68	10687	10	25.5	11	1N		2	E				
		20	1128		1135	No Flare	Patrol											
		20	1137		1145	No Flare	Patrol											
		20	1148		1149	No Flare	Patrol											
		20	1152		1205	No Flare	Patrol											
		20	1220		1221	No Flare	Patrol											
		20	1226		1229	No Flare	Patrol											
		20	1231		1232	No Flare	Patrol											
		20	1234		1237	No Flare	Patrol											
		20	1243		1330	No Flare	Patrol											
	20	1545		1808	No Flare	Patrol												
0004	LEAR	21	0027	0030	0037	N11 E63	10687	10	25.7	10	SF		3	E			24	F
0005	LEAR	21	0038	0041	0100	N11 E63	10687	10	25.8	22	SF		3	E			31	F
0006	LEAR	21	0213	0215	0221	N11 E62	10687	10	25.7	8	SF		3	E			33	F
0007	LEAR	21	0509	0513	0515	N05 E60	10687	10	25.7	6	SF		3	E			12	F
0008	LEAR	21	0648	0653	0657	N11 E60	10687	10	25.8	9	SF		3	E			72	F
0009	HOLL	21	1405	1405	1408	N08 E54	10687	10	25.6	3	SF		3	E			17	H
0010	HOLL	21	1436	1446	1449	S14 W43	10682	10	18.3	13	SF		3	E			11	FH
0011	HOLL	21	1521	1521	1533	S12 W40	10682	10	18.6	12	SF		3	E			34	FH
		21	1637		1812	No Flare	Patrol											
		21	1817		1828	No Flare	Patrol											
0012	HOLL	21	1829	1829	1835	N11 E50	10687	10	25.5	6	SF		3	E			21	F
		21	1852		2222	No Flare	Patrol											
	0013	LEAR	22	0804	0811	0836	N10 E44	10687	10	25.6	32	1N					212	EFH
		22	0804	0811	0836	N09 E44	10687	10	25.6	32	1N		3	E		225	FE	
		SVTO	22	0808E	0810U	0831D	N11 E45	10687	10	25.7	23D	1F		2	E		200	FH
		22	1330		1341	No Flare	Patrol											

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Oct 04

H α SOLAR FLARES

OCTOBER 2004

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
			24 0253		0328			No Flare Patrol											
0021	LEAR	24	0304E	0304U	0331	N10	E20	10687	10	25.6	27D	SF		1	E		36		F
			24 0425		0442			No Flare Patrol											
			24 0533		0539			No Flare Patrol											
			24 1342		1344			No Flare Patrol											
0022	HOLL	24	1708	1709	1712	N12	E19	10687	10	26.1	4	SF		3	E		18		
0023	HOLL	24	1956	2000	2009	N11	E19	10687	10	26.3	13	SF		3	E		15		F
0024	HOLL	24	2020	2025	2144	N10	E15	10687	10	26.0	84	1N		3	E		130		FU
0025		25	07132	07163	0723	N09	E10	10687	10	26.0	10	SF					27		F
	KANZ	25	0713	0719	0723	N09	E10	10687	10	26.0	10	SF		2	E				
	LEAR	25	0715	0716	0723	N09	E10	10687	10	26.0	8	SF		3	E		27		F
0026		25	1000*	1023*	1046	N08	E08	10687	10	26.0	46	1N					17		
	KANZ	25	1000	1023	1050	N08	E08	10687	10	26.0	50	1N		2	E				
	SVTO	25	1035	1035	1041	N09	E07	10687	10	26.0	6	SF		3	E		17		
0027	KANZ	25	1414U	1416	1446D	N09	E05	10687	10	26.0	32U	1F		2	E				
		25	1447		2248			No Flare Patrol											
0028	LEAR	25	2259	2304	2317	N08	E03	10687	10	26.2	18	SF		3	E		11		
		26	0010		0026			No Flare Patrol											
		26	0214		0226			No Flare Patrol											
0029	LEAR	26	0500	0501	0505	N11	W06	10687	10	25.7	5	SF		3	E		14		F
0030	KHAR	26	0912E		0918	N07	W13	10687	10	25.4	6D	SF		2	P				DO
		26	1137		1143			No Flare Patrol											
		26	1300		1301			No Flare Patrol											
		26	1406		1435			No Flare Patrol											
		26	1449		1456			No Flare Patrol											
		26	1528		1645			No Flare Patrol											
0031	LEAR	27	0103	0103	0108	N11	W17	10687	10	25.8	5	SF		3	E		14		
		27	0954		1008			No Flare Patrol											
		27	1301		1740			No Flare Patrol											
		27	1810		1825			No Flare Patrol											
		27	1906		2145			No Flare Patrol											
		27	2210		2215			No Flare Patrol											
		28	0108		0359			No Flare Patrol											
0032	LEAR	28	0420	0424	0434	S19	E72	10693	11	2.7	14	SF		3	E		41		
0033		28	0606E	0606	0620	S14	E66	10693	11	2.2	14D	SF					40		F
	SVTO	28	0606E	0606	0609	S11	E64	10693	11	2.1	3D	SF		3	E		25		
	LEAR	28	0611E	0611U	0631	S16	E68	10693	11	2.4	20D	SF		3	E		56		F
0034	LEAR	28	0845	0847	0855	N14	E11	10691	10	29.2	10	SF		3	E		39		F
0035	LEAR	28	0928	0928	0933	S12	E64	10693	11	2.2	5	SF		3	E		12		F
		28	1443		1926			No Flare Patrol											
		28	1958		2025			No Flare Patrol											
0036	LEAR	28	2357E	2359U	0018D	N14	E03	10691	10	29.2	21D	SF		3	E		13		
		29	0008		0020			No Flare Patrol											
0037	LEAR	29	0018	0018	0028	S17	E61	10693	11	2.6	10	SF		3	E		27		F

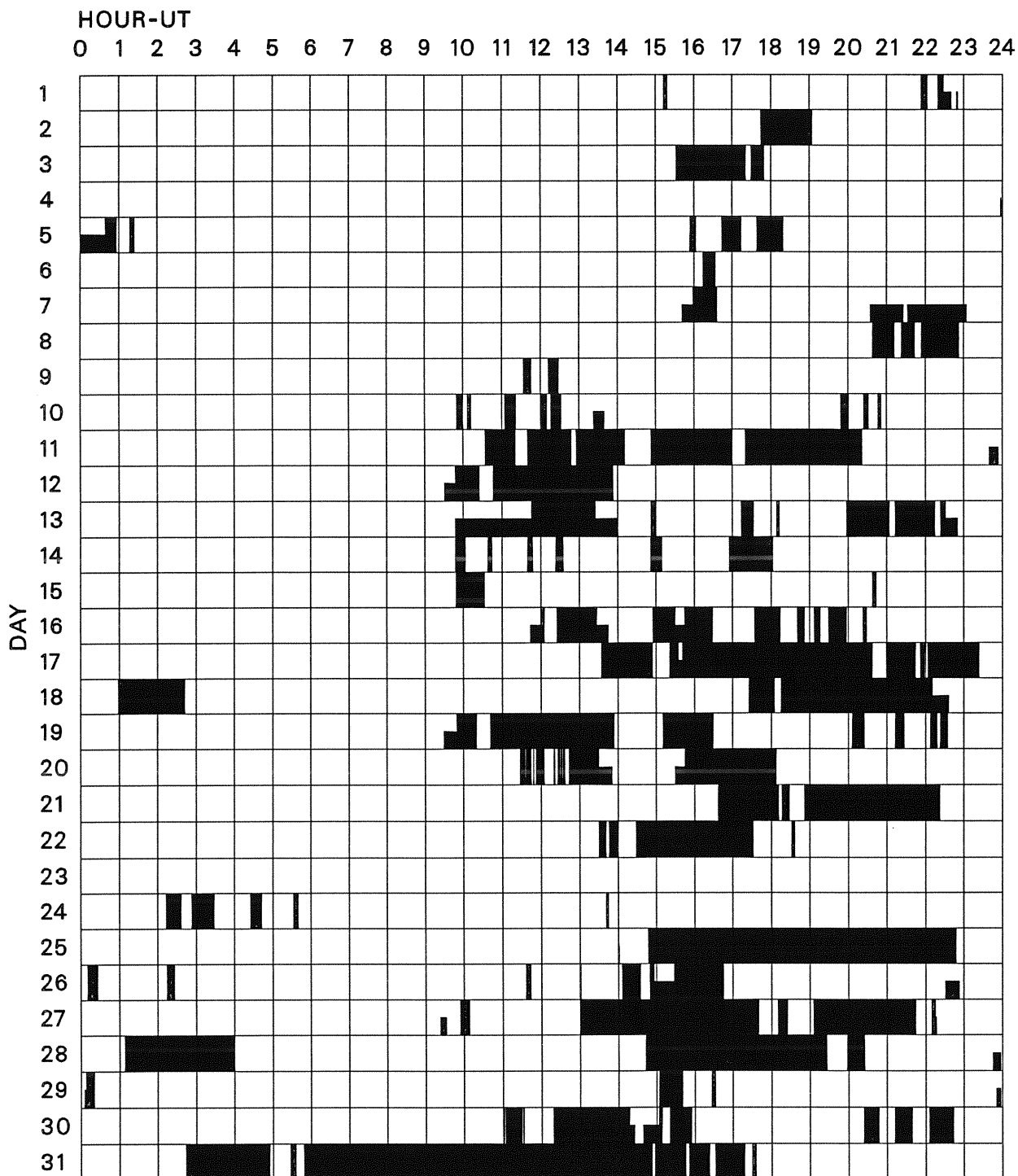
H α S O L A R F L A R E S7
Oct 04

OCTOBER 2004

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0038	KANZ	29	0915	0916	0917	N11	W46	10687	10	25.9	2	SF		2	E				
0039	HOLL	29	1434	1435	1445	S12	E48	10693	11	2.2	11	SF		3	E		26		
		29	1504		1541			No Flare Patrol											
		29	1627		1632			No Flare Patrol											
0040	HOLL	29	1921	1923	1928	S13	E50	10693	11	2.6	7	SF		3	E		32		F
0041	HOLL	29	2116	2116	2122	N12	W14	10691	10	28.8	6	SF		3	E		11		FH
0042	LEAR	30	0043	0050	0057	N14	W13	10691	10	29.0	14	SF		3	E		26		F
0043	LEAR	30	0330	0333	0344	N14	W15	10691	10	29.0	14	SF		3	E		30		F
0044	LEAR	30	0612	0617	0629	N14	W21	10691	10	28.7	17	SF		3	E		39		
0045	LEAR	30	0659	0703	0709	N16	W22	10691	10	28.6	10	SF		3	E		22		F
0046		30	0924	0927	0943	N14	W24	10691	10	28.6	19	1N					125		
	KANZ	30	0924	0927	0943	N14	W26	10691	10	28.4	19	1N		2	E				
	LEAR	30	0925	0929	0943D	N15	W23	10691	10	28.6	18D	1N		3	E		125		
0047	KANZ	30	1025	1036	1040	N12	W24	10691	10	28.6	15	SF		2	E				
		30	1101		1102			No Flare Patrol											
		30	1104		1129			No Flare Patrol											
		30	1132		1133			No Flare Patrol											
0048	KANZ	30	1138	1146	1157U	N11	W26	10689	10	28.5	19U	SF		2	E				
0049	SVTO	30	1148E	1149U	1155D	N12	W18	10691	10	29.1	7D	SF		2	E		44		F
		30	1218		1417			No Flare Patrol											
		30	1504		1508			No Flare Patrol											
		30	1520		1555			No Flare Patrol											
0050	HOLL	30	1623	1633	1645	N15	W20	10691	10	29.2	22	SN		3	E		98		
		30	2024		2047			No Flare Patrol											
		30	2112		2139			No Flare Patrol											
		30	2206		2244			No Flare Patrol											
		31	0244		0454			No Flare Patrol											
		31	0528		0535			No Flare Patrol											
0051	LEAR	31	0536	0539	0546	N13	W34	10691	10	28.7	10	SF		3	E		44		
		31	0548		1453			No Flare Patrol											
		31	1457		1546			No Flare Patrol											
		31	1551		1623			No Flare Patrol											
		31	1632		1718			No Flare Patrol											
		31	1730		1735			No Flare Patrol											
0052	HOLL	31	1958	1959	2003	N12	W44	10691	10	28.5	5	SF		3	E		29		
0053	HOLL	31	2113	2113	2120	N15	W35	10691	10	29.2	7	SF		3	E		19		
0054	HOLL	31	2123	2125	2143	N10	W43	10691	10	28.7	20	SF		3	E		27		F

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

OCTOBER 2004



Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic): portions of a panel with only the bottom half shaded mark times of only visual patrol.

Holloman
Kanzelhoehe

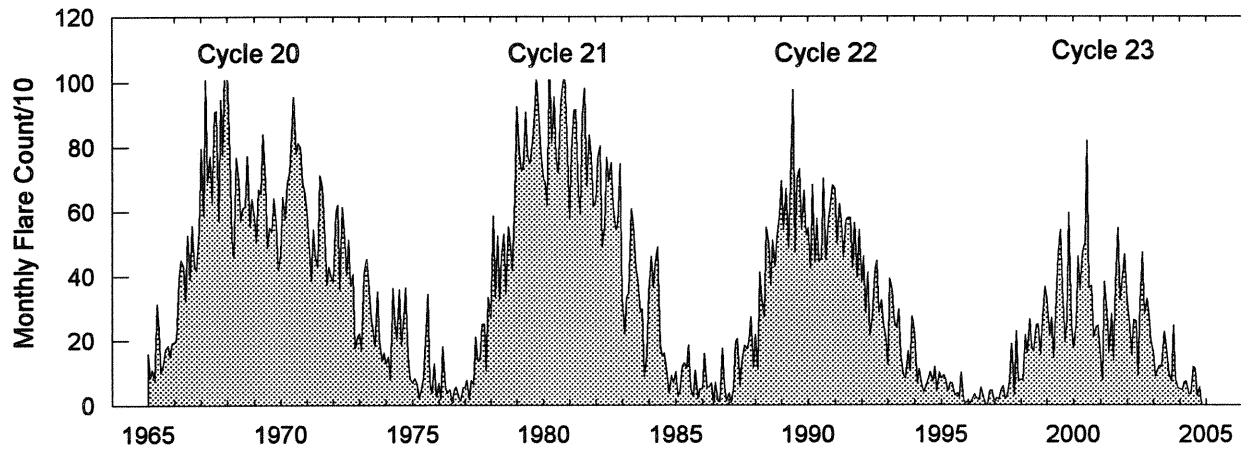
Learmonth
Kharkov

San Vito

Monthly Counts of Grouped Solar Flares

Jan 1965 - Oct 2004

9
Oct 04



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	518	587	4816
1989	695	544	672	488	691	977	474	699	733	547	665	526	7711
1990	550	424	684	442	580	445	454	703	449	574	623	682	6610
1991	672	503	625	570	458	574	582	581	425	565	396	544	6495
1992	380	462	287	412	214	271	413	447	287	325	248	206	3952
1993	123	392	357	262	237	296	154	92	82	167	104	275	2541
1994	217	67	111	60	40	56	81	101	72	117	45	99	1066
1995	82	95	77	42	69	66	29	37	23	99	14	6	639
1996	14	3	15	34	21	16	54	31	3	0	44	45	280
1997	8	22	18	43	59	18	26	75	188	31	228	74	790
1998	78	76	216	161	264	177	164	248	249	155	268	367	2423
1999	330	212	271	145	330	466	544	368	192	264	598	243	3963
2000	175	248	462	362	473	505	818	364	372	208	241	246	4474
2001	147	77	383	284	164	282	137	376	549	325	405	468	3597
2002	318	261	155	263	259	91	318	474	280	329	279	196	3223
2003	164	87	112	122	117	226	181	94	73	245	78	53	1552
2004	49	47	71	72	32	33	118	112	30	54			618

The term 'grouped' means observations of the same event by different sites were lumped together and counted as one.

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Oct 04

S O L A R R A D I O E M I S S I O N

Outstanding Occurrences

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
02	2800	PENT	20 GRF	2027.0	2120.0	53.0	9.0			
03	204	IZMI	41 F	1140.6	1141.6	2.3	23.0			
05	15400	LEAR	8 S	0310.0	0310.0	U	63.0			QL=4 ST=2 TYP=3
07	33	UPIC	45 C	0943.0	0943.2	1.0				UNCERTN
08	33	UPIC	45 C	1236.0	1236.5	1.0				
09	9100	GORK	4 S/F	0702.5	0703.0	0.9	18.0			
10	900	GORK	41 F	0646.3	0647.0	2.7	40.0			
	900	GORK	41 F	0646.3	0647.8		9.0			
	2950	GORK	1 S	0656.8	0657.4	1.7	6.3			
	9100	GORK	4 S/F	0710.9	0711.1	0.6	18.0			
	410	SVTO	48 C	1022.0	1030.0	12.0	210.0			QL=4 ST=2 TYP=8
	245	SVTO	4 S/F	1022.0	1023.0	11.0	170.0			QL=4 ST=2 TYP=3
	9100	GORK	2 S/F	1022.6	1023.1	3.5	8.0			
	2950	GORK	4 S/F	1022.6	1023.1	5.0	36.0			
	900	GORK	4 S/F	1022.6	1022.9	3.7	13.0			
	204	IZMI	45 C	1022.8	1022.9	0.4	171.0			
	3000	IZMI	20 GRF	1022.9	1023.1	1.4	30.0	13.3		
	2695	SVTO	8 S	1023.0	1023.0	U	34.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1023.0	1023.0	U	34.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1028.1	1028.4	0.4	16.0			
	610	SVTO	49 GB	1031.0	1032.0	1.0	530.0			QL=2 ST=2 TYP=6
	204	IZMI	41 F	1032.1	1032.3	0.6	70.0			
	127	TORN	40 F	1404.0U		37.0D		30.0D		
	245	SGMR	8 S	1527.0	1527.0		60.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1527.0	1527.0	U	60.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1847.0	1847.0	U	87.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1847.0	1847.0	U	62.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2001.0	2001.0	1.0	52.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	2120.0	2127.0	15.0	10.0			
	500	HIRA	7 C	2125.0	2127.0	5.0	75.0			0
	610	PALE	49 GB	2126.0	2127.0	2.0	640.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	2128.0	2128.0	U	470.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	2129.0	2129.0	1.0	2600.0			QL=4 ST=2 TYP=6
11	127	TORN	43 NS	0900.0		160.0		10.0		V=0, DISTURBED
	245	LEAR	8 S	0230.0	0231.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0230.0	0231.0	1.0	100.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0231.0	0231.0	1.0	70.0			
	245	PALE	8 S	0323.0	0323.0	U	68.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0323.0	0323.0	U	76.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0400.0	0400.0	1.0	10.0			
	204	IZMI	7 C	1019.3	1019.4	0.1	15.0			
	204	IZMI	42 SER	1120.5	1120.6	2.0	52.0			
	204	IZMI	41 F	1127.3	1127.3	0.3	66.0			
	204	IZMI	7 C	1155.8	1155.8	0.2	9.0			
	245	SGMR	8 S	1735.0	1736.0	1.0	60.0			QL=4 ST=2 TYP=3
12	9100	GORK	1 S	0850.5	0850.7	0.5	6.6			
	245	SGMR	8 S	1520.0	1520.0	U	93.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2152.0	2153.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2232.0	2232.0	U	91.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	2301.0	2304.0	3.0	850.0			QL=4 ST=2 TYP=8
	500	HIRA	8 S	2304.0	2304.0	1.0	15.0			0
13	410	LEAR	8 S	2304.0	2304.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0030.0	0030.0	U	280.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0030.0	0030.0	U	230.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0105.0	0106.0	1.0	88.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0114.0	0114.0	U	240.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0114.0	0114.0	U	94.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0114.0	0114.0	U	200.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0114.0	0114.0	U	190.0			QL=4 ST=2 TYP=3
13	500	HIRA	8 S	0146.0	0146.0	1.0	25.0			0

S O L A R R A D I O E M I S S I O N

Outstanding Occurrences

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Oct 04

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
13	410	LEAR	8 S	0146.0	0146.0	U	63.0			QL=4 ST=2 TYP=3
		204 IZMI	42 SER	0559.3	0559.6	0.4	26.0			
14	204	IZMI	43 NS	0600.0		360.0D		10.0		V=1
		127 TORN	43 NS	0740.0		250.0		25.0		
	245	LEAR	8 S	0721.0	0721.0	U	85.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0724.0	0724.0	U	64.0			QL=2 ST=2 TYP=3
	2950	GORK	1 S	1000.2	1000.7	1.5	3.0			
	900	GORK	40 F	1001.3	1001.5	0.6	7.7			
	900	GORK	40 F	1001.3	1001.8		3.5			
	245	SVTO	8 S	1056.0	1056.0	U	54.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	2340.0	2341.0	3.0	72.0			QL=4 ST=2 TYP=3
15	127	TORN	44 NS	0700.0E		290.0D		10.0		V=1
	204	IZMI	42 SER	1132.3	1135.2	23.4	54.0			
16	127	TORN	44 NS	0630.0E		510.0D		25.0		V=0
	204	IZMI	43 NS	0708.0		229.0U		10.0		
17	127	TORN	44 NS	0630.0E		510.0D		10.0		V=1
	2804	VORO	41 F	0128.4	0129.0	1.0	13.0			
	2804	VORO	41 F	0128.4	0130.6	2.2	8.5			
	2800	HIRA	1 S	0134.0	0134.0	1.0	15.0			0
18	127	TORN	44 NS	0630.0E		510.0D		12.0		V=1
	2800	HIRA	1 S	0311.0	0311.0	1.0	10.0			0
	610	LEAR	8 S	2251.0	2252.0	1.0	69.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	2332.0	2333.0	2.0	20.0			0
19	127	TORN	44 NS	0810.0E		410.0D		15.0		V=1
	610	LEAR	48 C	0009.0	0016.0	7.0	540.0			QL=4 ST=2 TYP=8
	245	LEAR	8 S	0632.0	0632.0	1.0	73.0			QL=4 ST=2 TYP=3
	127	TORN	4 S/F	1424.0U		2.0D	130.0D	40.0D		DISTURBED
	245	SGMR	8 S	1424.0	1424.0	U	59.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1424.0	1424.0	U	96.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1424.0	1424.5	1.2				UNCERTN
	610	LEAR	8 S	2357.0	2358.0	1.0	140.0			QL=4 ST=2 TYP=3
20	127	TORN	44 NS	0630.0E		400.0D		16.0		V=1
	204	IZMI	41 F	0609.6	0610.2	0.9	142.0			
	245	LEAR	8 S	0653.0	0653.0	U	55.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0705.6	0705.8	0.2	6.0			
	204	IZMI	42 SER	0741.2	0744.4	5.8	103.0			
	204	IZMI	42 SER	0827.6	0827.9	0.5	82.0			
	204	IZMI	7 C	0925.8	0925.9	0.2	11.0			
	204	IZMI	42 SER	0930.4	0930.6	1.2	80.0			
	2950	GORK	1 S	0930.5	0931.0	2.3	5.2			
	204	IZMI	7 C	0934.4	0934.6	0.6	10.0			
	610	SVTO	48 C	1045.0	1048.0	6.0	600.0			QL=2 ST=2 TYP=8
	204	IZMI	45 C	1045.3	1047.2	6.5	317.0			
	127	TORN	47 GB	1045.6	1047.0	7.0	300.0D	50.0D		
	245	SVTO	4 S/F	1046.0	1048.0	5.0	99.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1046.0	1049.0	5.0	170.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1046.0	1048.0	5.0	110.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1046.0	1047.0	3.0				
	1415	SVTO	4 S/F	1046.0	1047.0U	4.0	100.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1046.0	1046.0U	5.0	71.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1046.0	1048.0U	5.0	170.0			QL=4 ST=2 TYP=3
	3000	IZMI	45 C	1046.1	1046.8	5.6	56.0			
	8800	SVTO	4 S/F	1047.0	1048.0U	4.0	220.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1058.3	1058.6	0.4	58.0			
	33	UPIC	45 C	1108.0	1108.5	1.0				
	204	IZMI	42 SER	1108.3	1108.6	1.1	124.0			
	33	UPIC	45 C	1308.5	1308.8	0.7				
	610	SGMR	4 S/F	1320.0E	1349.0	42.0D	130.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1320.0	1340.0	640.0	130.0			QL=4 ST=1 TYP=3
	33	UPIC	46 C	1450.0	1450.8	2.0				
	245	PALE	8 S	1704.0	1705.0	1.0	190.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	1704.0	1705.0	1.0	86.0			QL=4 ST=2 TYP=3

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Oct 04

SOLAR RADIO EMISSION

Outstanding Occurrences

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
20	245	PALE	8 S	1723.0	1723.0	U	100.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2152.0	2152.0	U	57.0			QL=4 ST=2 TYP=3
21	127	TORN	44 NS	0720.0E		460.0D		16.0		V=1
	2840	PEKG	5 S	0019.0	0022.0	6.0	42.0			
	410	PALE	8 S	0020.0	0021.0	2.0	260.0			QL=4 ST=2 TYP=3
	2800	HIRA	3 S	0021.0	0022.0	3.0	40.0			0
	2804	VORO	42 SER	0021.2	0040.0	18.8	11.5			
	2804	VORO	42 SER	0021.2	0022.2	3.7	38.5			
	2804	VORO	42 SER	0021.3	0046.4	25.1	4.3			
	610	LEAR	8 S	0022.0	0022.0	U	55.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0022.0	0022.0	U	73.0			QL=2 ST=2 TYP=3
	610	PALE	8 S	0022.0	0022.0	U	56.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0022.0	0022.0	U	120.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0026.0	0028.0	2.0	110.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0027.0	0027.0	U	72.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0027.0	0027.0	U	53.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0037.0	0040.0	6.0	13.1			
	2800	HIRA	1 S	0040.0	0040.0	1.0	10.0			0
	500	HIRA	8 S	0040.0	0040.0	1.0	5.0			0
	2840	PEKG	5 S	0210.0	0212.4	6.0	11.7			
	2800	HIRA	1 S	0212.0	0213.0	2.0	10.0			0
	500	HIRA	7 C	0212.0	0214.0	6.0	5.0			0
	2804	VORO	4 S/F	0212.0	0212.5	1.5	9.1			
	2840	PEKG	1 S	0358.0	0402.1	7.0	8.8			
	500	HIRA	7 C	0400.0	0402.0	5.0	90.0			ML
	610	LEAR	8 S	0401.0	0401.0	1.0	160.0			QL=4 ST=2 TYP=3
	2804	VORO	1 S	0401.3	0402.0	1.3	9.7			
	2800	HIRA	1 S	0402.0	0402.0	1.0	10.0			0
	245	LEAR	8 S	0424.0	0424.0	U	66.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0503.0	0506.5	7.0	10.3			
	500	HIRA	7 C	0505.0	0507.0	7.0	140.0			ML
	2800	HIRA	1 S	0506.0	0507.0	2.0	10.0			0
	410	LEAR	8 S	0506.0	0506.0	1.0	190.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0506.0	0506.0	1.0	230.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0509.0	0509.0	U	88.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0618.0	0619.0	1.0	10.0			WL
	245	LEAR	49 GB	0618.0	0618.0	U	740.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0618.0	0618.0	U	540.0			QL=4 ST=2 TYP=6
	204	IZMI	45 C	0618.3	0618.6	0.7	597.0			
	245	LEAR	8 S	0629.0	0629.0	U	83.0			QL=4 ST=2 TYP=3
	500	HIRA	7 C	0644.0	0648.0	13.0	50.0			ML
	2840	PEKG	3 S	0644.0	0649.0	10.0	13.0			
	900	GORK	46 C	0645.7	0648.1		20.0			
	900	GORK	46 C	0645.7	0647.8	3.9	31.0			
	410	LEAR	8 S	0646.0	0647.0	2.0	100.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	0646.0	0647.0	6.0	120.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0646.3	0648.6	3.7	337.0			
	2800	HIRA	1 S	0647.0	0648.0	3.0	10.0			0
	610	LEAR	8 S	0647.0	0647.0	U	81.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0647.0	0647.0	5.0	69.0			QL=2 ST=2 TYP=3
	9100	GORK	46 C	0647.3	0648.4	4.9	9.5			
	9100	GORK	46 C	0647.3	0650.9		6.8			
	3000	IZMI	22 GRF	0647.6	0648.8	2.0	9.0			1.7
	245	LEAR	8 S	0648.0	0649.0	1.0	250.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0648.0	0649.0	4.0	190.0			QL=2 ST=2 TYP=3
	204	IZMI	42 SER	0651.6	0651.8	0.4	34.0			
	610	SVTO	4 S/F	0923.0	0924.0	6.0	26.0			QL=2 ST=2 TYP=3
	204	IZMI	42 SER	0923.5	0926.7	3.8	121.0			
	410	SVTO	4 S/F	0926.0	0929.0	5.0	220.0			QL=2 ST=2 TYP=3
	245	SVTO	8 S	0927.0	0928.0	2.0	110.0			QL=2 ST=2 TYP=3
	127	TORN	45 C	0927.0	0928.0	3.0	380.0			75.0
	204	IZMI	42 SER	0927.7	0928.9	3.9	120.0			
	2950	GORK	7 C	0927.8	0929.4	2.2	3.9			
	2950	GORK	7 C	0927.8	0929.9		5.2			
	245	LEAR	8 S	0928.0	0929.0	1.0	120.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0928.0	0929.0	1.0	74.0			QL=4 ST=2 TYP=3
	900	GORK	7 C	0928.4	0929.2	2.4	4.4			
	900	GORK	7 C	0928.4	0930.2		6.7			

S O L A R R A D I O E M I S S I O N

Outstanding Occurrences

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Oct 04

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
21	9100	GORK	2 S/F	0928.9	0929.8	2.5	6.7			
	204	IZMI	45 C	1031.5	1031.6	0.3	397.0			
	204	IZMI	7 C	1107.4	1107.4	0.1	38.0			
	2800	PENT	29 PBI	1903.0	1928.0	29.0U	22.0			
	245	SGMR	8 S	1947.0	1947.0	1.0	170.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1947.0	1947.0	U	65.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1947.0	1947.0	U	61.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1947.0	1947.0	U	29.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1947.0	1947.0	1.0	65.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1947.0	1947.0	U	47.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1947.0	1947.0	U	21.0			QL=4 ST=2 TYP=3
	15400	SGMR	4 S/F	1948.0	1951.0	4.0	51.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1954.0	1955.0	1.0	71.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1957.0	1958.0	2.0	100.0			QL=4 ST=2 TYP=3
22	2840	PEKG	5 S	0147.0	0148.9	5.0	13.4			
	245	LEAR	8 S	0148.0	0148.0	U	220.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0148.0	0148.0	U	57.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0148.0	0148.0	U	170.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0148.0	0148.0	U	87.0			QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	0148.2	0148.8	2.3	19.3			
	2800	HIRA	1 S	0149.0	0149.0	2.0	15.0			0
	500	HIRA	8 S	0149.0	0149.0	1.0	5.0			0
	500	HIRA	7 C	0336.0	0339.0	4.0	10.0			0
	204	IZMI	42 SER	0620.9	0623.1	2.6	169.0			
	245	SVTO	49 GB	0622.0	0624.0	4.0	1500.0			QL=2 ST=2 TYP=6
	610	SVTO	4 S/F	0622.0	0624.0	4.0	180.0			QL=2 ST=2 TYP=3
	900	GORK	28 PRE	0622.2	0622.8	2.2	7.7			
	2840	PEKG	5 S	0623.0	0624.8	6.0	11.7			
	245	LEAR	49 GB	0624.0	0624.0	1.0	1600.0			QL=4 ST=2 TYP=6
	410	LEAR	8 S	0624.0	0624.0	U	110.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0624.0	0624.0	U	210.0			QL=4 ST=2 TYP=3
	410	SVTO	49 GB	0624.0	0624.0	1.0	550.0			QL=4 ST=2 TYP=6
	204	IZMI	45 C	0624.0	0624.4	1.5	10496.0			
	2950	GORK	2 S/F	0624.2	0624.6	1.4	9.2			
	900	GORK	46 C	0624.4	0624.5	3.0	130.0			
	900	GORK	46 C	0624.4	0624.9		42.0			
	2800	HIRA	1 S	0625.0	0625.0	1.0	10.0			0
	500	HIRA	8 S	0625.0	0625.0	1.0	10.0			0
	245	SVTO	4 S/F	0628.0	0630.0	3.0	490.0			QL=2 ST=2 TYP=3
	204	IZMI	42 SER	0628.3	0629.7	6.5	1204.0			
	245	LEAR	8 S	0629.0	0629.0	1.0	210.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0630.0	0630.0	1.0	10.0			0
	410	SVTO	8 S	0630.0	0630.0	U	69.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0753.0	0753.0	U	67.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0753.0	0753.0	U	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0753.0	0753.0	1.0	55.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0753.0	0753.0	2.0	37.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0753.9	0753.9	0.1	28.0			
	204	IZMI	42 SER	0754.8	0758.2	5.2	28.0			
	204	IZMI	42 SER	0802.8	0808.5	16.3	115.0			
	2840	PEKG	3 S	0803.0	0810.5	22.0	105.8			
	2950	GORK	46 C	0805.0	0809.0		69.0			
	610	SVTO	4 S/F	0805.0	0808.0	8.0	180.0			QL=2 ST=2 TYP=3
	2950	GORK	46 C	0805.0	0810.4		105.0			
	2950	GORK	46 C	0805.0	0807.8	14.4	68.0			
	900	GORK	46 C	0805.1	0810.1		73.0			
	900	GORK	46 C	0805.1	0808.6		90.0			
	900	GORK	46 C	0805.1	0807.9	11.0	330.0			
	245	SVTO	4 S/F	0806.0	0808.0	7.0	92.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	0806.0	0808.0	7.0	210.0			QL=4 ST=2 TYP=3
	9100	GORK	46 C	0806.7	0810.3		45.0			
	9100	GORK	46 C	0806.7	0809.4		34.0			
	9100	GORK	46 C	0806.7	0808.7	16.8	29.0			
	1415	LEAR	8 S	0807.0	0807.0	1.0	68.0			QL=2 ST=2 TYP=3
	610	LEAR	4 S/F	0807.0	0809.0	3.0	90.0			QL=4 ST=2 TYP=3
	1415	SVTO	4 S/F	0807.0	0807.0	3.0	100.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	0807.0	0810.0	4.0	110.0			QL=4 ST=2 TYP=3
	3000	IZMI	45 C	0807.1	0810.4	7.7	111.0			

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Oct 04

S O L A R R A D I O E M I S S I O N

Outstanding Occurrences

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean (2 Hz)		
22	410	LEAR	8 S	0808.0	0808.0	U	120.0			QL=4 ST=2 TYP=3
	2695	LEAR	8 S	0808.0	0810.0	2.0	96.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0808.0	0810.0	2.0	75.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0808.0	0808.0	4.0	100.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0808.0	0810.0	4.0	87.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0808.0	0810.0	3.0	51.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0809.0	0810.0	2.0	28.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1016.4	1016.6	2.1	11.0			
	410	SVTO	8 S	1157.0	1158.0	1.0	120.0			QL=2 ST=2 TYP=3
	204	IZMI	41 F	1157.5	1157.6	0.3	50.0			
	410	SGMR	8 S	1158.0	1158.0	U	63.0			QL=4 ST=2 TYP=3
	3000	IZMI	20 GRF	1158.7	1158.9	0.4	11.0	4.1		
	2800	PENT	29 PBI	2205.0	2212.0	27.0U	6.0			
	500	HIRA	8 S	2208.0	2208.0	1.0	5.0			0
23	204	IZMI	42 SER	0710.4	0710.7	0.5	18.0			
	2840	PEKG	5 S	0720.0	0723.6	7.0	12.1			
	9100	GORK	2 S/F	0723.0	0723.8	1.8	9.4			
	2950	GORK	2 S/F	0723.4	0723.8	1.3	8.8			
	204	IZMI	42 SER	0728.4	0729.0	1.1	13.0			
	204	IZMI	7 C	0742.3	0742.4	0.2	43.0			
	245	SVTO	8 S	0753.0	0753.0	1.0	55.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0753.0	0753.0	2.0	37.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1442.0	1442.0	U	190.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1442.0	1442.0	U	45.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1442.0	1442.0	U	210.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1632.0	1632.0	1.0	36.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1632.0	1632.0	1.0	51.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1632.0	1632.0	1.0	42.0			QL=4 ST=2 TYP=3
	2695	PALE	4 S/F	1654.0	1654.0	3.0	56.0			QL=4 ST=2 TYP=3
	245	PALE	4 S/F	1656.0	1657.0	3.0	170.0			QL=4 ST=2 TYP=3
	410	PALE	4 S/F	1656.0	1657.0	3.0	270.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	1656.0	1658.0	3.0	200.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1656.0	1657.0	3.0	160.0			QL=4 ST=2 TYP=3
	410	SGMR	4 S/F	1656.0	1657.0	3.0	280.0			QL=4 ST=2 TYP=3
	610	SGMR	4 S/F	1656.0	1657.0	3.0	200.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	1657.0	1657.0	1.0	64.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1657.0	1657.0	1.0	50.0			QL=4 ST=2 TYP=3
	2800	PENT	29 PBI	1912.0	1920.0	20.0U	12.0			
	2800	PENT	1 S	2205.0	2209.0	9.0	5.0			
24	235	CUBA	43 NS	0228.0		60.0D		5.0		
	280	CUBA	43 NS	0228.0		62.0D		20.0		
	245	LEAR	49 GB	0254.0	0255.0	5.0	500.0			QL=4 ST=2 TYP=6
	245	LEAR	49 GB	0254.0	0255.0	1266.0	500.0			QL=4 ST=1 TYP=6
	245	PALE	48 C	0255.0	0255.0	3.0	520.0			QL=4 ST=2 TYP=8
	500	HIRA	4 S/F	0256.0	0257.0	7.0	55.0			WL
	410	LEAR	8 S	0257.0	0257.0	U	27.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0257.0	0258.0	1.0	37.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0257.0	0257.0	1.0	63.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0257.0	0259.6	6.0	7.9			
	245	LEAR	8 S	0643.0	0643.0	U	60.0			QL=4 ST=2 TYP=3
	2800	PENT	1 S	1820.0	1823.0	7.0	3.0			
	1415	PALE	8 S	2023.0	2024.0	2.0	220.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	2023.0	2024.0	1.0	66.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2023.0	2024.0	1.0	270.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	2026.0	2026.0	U	62.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	2045.0	2047.0	2.0	57.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	2045.0	2048.0	4.0	69.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	2046.0	2049.0	6.0	240.0			QL=4 ST=2 TYP=8
	245	PALE	4 S/F	2046.0	2048.0	5.0	140.0			QL=4 ST=2 TYP=3
	610	PALE	4 S/F	2046.0	2047.0	5.0	120.0			QL=4 ST=2 TYP=3
	410	SGMR	48 C	2046.0	2048.0	5.0	120.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	2101.0	2101.0	U	93.0			QL=4 ST=2 TYP=3
25	204	IZMI	43 NS	0600.0		360.0D		15.0		
	127	TORN	44 NS	1030.0E		130.0D		15.0		V=1,DISTURBED
	2840	PEKG	3 S	0237.0	0244.7	11.0	19.2			
	2800	HIRA	1 S	0242.0	0245.0	6.0	10.0			0

SOLAR RADIO EMISSION Outstanding Occurrences

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OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean (10 -22 W/m 2 Hz)		
25	2804	VORO	3 S	0242.8	0245.4	6.3	14.9			
	204	IZMI	42 SER	0600.0	0601.2	2.5	32.0			
	245	LEAR	8 S	0611.0	0611.0	U	54.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0617.2	0620.3	4.2	36.0			
	204	IZMI	41 F	0631.0	0631.2	0.3	15.0			
	9100	GORK	2 S/F	0714.9	0715.4	0.8	6.3			
	2950	GORK	1 S	0715.0	0715.3	0.8	3.9			
	2950	GORK	20 GRF	0959.4	1001.5	9.6	7.4			
	9100	GORK	20 GRF	1000.4	1039.0U	38.6D	13.0			
	900	GORK	41 F	1000.5	1002.0		17.0			
	900	GORK	41 F	1000.5	1000.8	6.7	20.0			
	2950	GORK	20 GRF	1022.4	1030.7	16.6D	4.9			
	127	TORN	42 SER	1225.0	1226.7	10.0	250.0D	90.0D		
	245	SVTO	49 GB	1227.0	1229.0	2.0	1200.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	1227.0	1228.0	2.0	240.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1227.0	1227.0	U	42.0			QL=4 ST=2 TYP=3
	410	SVTO	4 S/F	1232.0	1233.0	3.0	220.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	1238.0	1240.0	3.0	330.0			QL=2 ST=2 TYP=3
	410	SVTO	8 S	1251.0	1253.0	2.0	420.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1414.0	1414.0	4.0	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1603.0	1603.0	U	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2225.0	2225.0	U	58.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2225.0	2225.0	U	58.0			QL=4 ST=3 TYP=3
	245	PALE	8 S	2226.0	2226.0	U	76.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2314.0	2314.0	U	54.0			QL=4 ST=2 TYP=3
26	204	IZMI	44 NS	0600.0E		360.0D		20.0		
	127	TORN	44 NS	0630.0E		510.0D		17.0		V=1
	500	HIRA	8 S	0305.0	0305.0	1.0	30.0			0
	410	LEAR	8 S	0305.0	0305.0	U	360.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0340.0	0340.0	U	94.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0346.0	0346.0	U	73.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0423.0	0423.0	U	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0438.0	0439.0	2.0	160.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0439.0	0444.0	5.0	15.0			
	610	LEAR	8 S	0440.0	0440.0	U	140.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0445.0	0445.0	1.0	15.0			
	245	LEAR	8 S	0633.0	0633.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0633.0	0633.0	1.0	85.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0633.0	0633.0	U	21.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0633.4	0633.9	1.9	168.0			
	245	LEAR	8 S	0741.0	0741.0	U	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0741.0	0741.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0812.0	0812.0	U	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0812.0	0812.0	U	57.0			QL=4 ST=2 TYP=3
	610	SVTO	4 S/F	0916.0	0916.0	4.0	150.0			QL=2 ST=2 TYP=3
	204	IZMI	41 F	0916.2	0917.6	2.2	156.0			
	245	LEAR	49 GB	0917.0	0919.0	3.0	1100.0			QL=4 ST=2 TYP=6
	245	SVTO	49 GB	0917.0	0919.0	3.0	1500.0			QL=4 ST=2 TYP=6
	127	TORN	47 GB	0917.0	0919.7	4.8	500.0D	150.0D		
	410	SVTO	8 S	0918.0	0919.0	2.0	460.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	0918.9	0919.6	2.1	1165.0			
	410	LEAR	8 S	0919.0	0919.0	U	180.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0920.0	0920.0	U	59.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0929.7	0929.9	0.5	105.0			
	204	IZMI	42 SER	0940.6	0940.9	0.6	56.0			
	204	IZMI	41 F	0945.2	0945.2	0.3	272.0			
	204	IZMI	42 SER	0955.6	0957.9	3.6	106.0			
	245	SVTO	8 S	0958.0	0958.0	U	92.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	1042.0	1042.3	0.6	76.0			
	204	IZMI	42 SER	1113.3	1113.7	0.5	118.0			
	245	SVTO	8 S	1117.0	1118.0	1.0	130.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	1117.2	1117.5	0.6	172.0			
	410	SVTO	8 S	1118.0	1118.0	U	64.0			QL=2 ST=2 TYP=3
	204	IZMI	42 SER	1134.8	1138.2	5.4	100.0			
	410	SGMR	8 S	1136.0	1136.0	U	54.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1136.0	1136.0	U	35.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1136.0	1136.0	U	90.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1343.0	1343.0	U	96.0			QL=4 ST=2 TYP=3

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Oct 04

S O L A R R A D I O E M I S S I O N

Outstanding Occurrences

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
26	245	SGMR	8 S	1344.0	1344.0	U	68.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1455.0	1455.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1455.0	1455.0	U	54.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1459.0	1500.0	1.0	200.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1459.0	1459.0	1.0	270.0			QL=4 ST=2 TYP=3
	2800	PENT	8 S	1602.0	1604.0	4.0	26.0			
	245	PALE	8 S	1746.0	1746.0	U	150.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1746.0	1746.0	U	140.0			QL=4 ST=2 TYP=3
27	204	IZMI	44 NS	0600.0E		360.0D		15.0		
	127	TORN	44 NS	0630.0E		510.0D		20.0		V=1
	235	CUBA	44 NS	1957.0E		96.0D		15.0		
	280	CUBA	44 NS	1957.0E		96.0D		16.0		
	245	LEAR	8 S	0308.0	0308.0	U	57.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0544.0	0544.0	U	67.0			QL=4 ST=2 TYP=3
	2840	PEKG	1 S	0556.0	0558.0	7.0	7.3			
	900	GORK	41 F	0902.2	0902.4	9.8	100.0			
	900	GORK	41 F	0902.2	0911.9		17.0			
	9100	GORK	46 C	0903.6	0904.3		10.0			
	9100	GORK	46 C	0903.6	0903.9	1.0	24.0			
	410	SVTO	8 S	1130.0	1130.0	U	66.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	1130.0	1130.0	U	300.0			QL=2 ST=2 TYP=3
	2800	PENT	29 PBI	2053.0	2059.0	64.0	11.0			
28	204	IZMI	44 NS	0600.0E		360.0D		15.0		
	127	TORN	44 NS	0630.0E		510.0D		25.0		V=2
	245	LEAR	8 S	0543.0	0543.0	U	54.0			QL=4 ST=2 TYP=3
	9100	GORK	4 S/F	0703.6	0703.7	0.4	20.0			
	204	IZMI	42 SER	0831.3	0831.8	0.6	44.0			
	204	IZMI	41 F	0933.7	0934.0	0.6	38.0			
	245	SVTO	8 S	1154.0	1154.0	U	60.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1154.0	1154.0	1.0	26.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1948.0	1949.0	1.0	33.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1948.0	1949.0	1.0	66.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2214.0	2214.0	U	66.0			QL=4 ST=2 TYP=3
29	204	IZMI	44 NS	0600.0E		360.0D		15.0		
	127	TORN	44 NS	0630.0E		510.0D		30.0		V=1
	235	CUBA	44 NS	1340.0E		470.0D		8.0		
	280	CUBA	44 NS	1340.0E		470.0D		23.0		
	410	LEAR	8 S	0102.0	0102.0	U	130.0			QL=4 ST=2 TYP=3
	1415	LEAR	8 S	0102.0	0102.0	U	56.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0406.0	0406.0	U	270.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0535.0	0535.0	U	62.0			QL=4 ST=2 TYP=3
	204	IZMI	7 C	0600.2	0600.3	0.1	44.0			
	245	SVTO	8 S	0641.0	0642.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0642.0	0642.0	U	60.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0642.4	0642.6	0.4	80.0			
	204	IZMI	41 F	0700.5	0700.6	0.4	48.0			
	204	IZMI	7 C	0721.3	0721.4	0.1	17.0			
	204	IZMI	41 F	0809.4	0809.6	0.5	83.0			
	204	IZMI	7 C	0825.2	0825.3	0.2	38.0			
	204	IZMI	7 C	0844.5	0844.6	0.1	23.0			
	204	IZMI	7 C	0856.0	0856.1	0.2	22.0			
	245	SVTO	48 C	0911.0	0912.0	3.0	92.0			QL=4 ST=2 TYP=8
	204	IZMI	42 SER	0911.5	0912.0	1.6	87.0			
	245	LEAR	8 S	0912.0	0912.0	2.0	95.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0913.9	0914.3	1.0	130.0			
	204	IZMI	42 SER	0921.9	0921.9	0.3	20.0			
	245	SVTO	8 S	1021.0	1021.0	U	170.0			QL=4 ST=2 TYP=3
	204	IZMI	45 C	1021.4	1021.7	0.8	212.0			
	204	IZMI	42 SER	1022.3	1022.5	2.2	36.0			
	204	IZMI	42 SER	1027.1	1027.3	5.5	28.0			
	204	IZMI	45 C	1120.7	1120.9	0.5	129.0			
	204	IZMI	42 SER	1128.8	1132.5	3.9	90.0			
	245	SVTO	8 S	1253.0	1253.0	U	67.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1327.0	1327.0	U	73.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1328.0	1328.0	U	56.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1335.0	1335.0	U	100.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N

Outstanding Occurrences

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Oct 04

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
29	245	SVTO	8 S	1335.0	1335.0	U	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1340.0	1341.0	1.0	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1340.0	1341.0	1.0	85.0			QL=4 ST=2 TYP=3
	245	SGMR	4 S/F	1636.0	1640.0	5.0	340.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1651.0	1651.0	U	63.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1814.0	1814.0	U	77.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1814.0	1814.0	U	70.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	1831.0	1831.0	U	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1831.0	1831.0	U	98.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1846.0	1846.0	1.0	50.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1908.0	1908.0	1.0	85.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1916.0	1916.0	U	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1925.0	1925.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1958.0	1958.0	U	73.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2020.0	2020.0	U	56.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2258.0	2259.0	1.0	450.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	2259.0	2259.0	2.0	40.0			0
	410	LEAR	8 S	2259.0	2259.0	U	86.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	2259.0	2259.0	U	59.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2259.0	2259.0	U	370.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2259.0	2259.0	U	130.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2259.0	2259.0	U	58.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2303.0	2304.0	1.0	160.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2309.0	2309.0	U	61.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2332.0	2332.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2339.0	2339.0	U	78.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2344.0	2344.0	U	140.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2348.0	2348.0	U	170.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	2348.0	2348.0	U	76.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	2348.0	2348.0	U	150.0			QL=4 ST=2 TYP=3
	500	HIRA	7 C	2349.0	2356.0	9.0	45.0			0
	245	LEAR	48 C	2350.0	2355.0	7.0	1000.0			QL=4 ST=2 TYP=8
	2840	PEKG	1 S	2352.0	2355.9	9.0	8.1			
	245	PALE	49 GB	2353.0	2355.0	3.0	980.0			QL=4 ST=2 TYP=6
	410	PALE	4 S/F	2353.0	2355.0	3.0	400.0			QL=4 ST=2 TYP=3
	2800	HIRA	1 S	2355.0	2356.0	3.0	10.0			0
	410	LEAR	8 S	2355.0	2355.0	U	190.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	2355.0	2355.0	U	51.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	2355.0	2355.0	U	75.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	2355.0	2355.0	U	85.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2355.0	2355.0	U	53.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	2355.0	2355.0	1.0	93.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	2355.0	2355.0	U	83.0			QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	2355.7	2356.3	2.0	21.5			
30	245	LEAR	43 NS	0056.0	0302.0	159.0	310.0			QL=4 ST=2 TYP=1
	127	TORN	43 NS	0630.0		510.0		40.0		V=2, DISTURBED
	204	I2MI	43 NS	1151.0		10.00		80.0		
	235	CUBA	44 NS	1300.0E		510.00		9.0		
	280	CUBA	44 NS	1300.0E		510.00		28.0		
	245	SGMR	43 NS	1450.0	1450.0	30.0	51.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1908.0	0330.0	513.0	310.0			QL=4 ST=2 TYP=1
	2840	PEKG	3 S	0039.0	0043.5	15.0	96.7			
	2804	VORO	46 C	0041.3	0048.2	6.9	9.8			
	2804	VORO	46 C	0041.3	0043.5	5.4	92.6			
	2800	HIRA	7 C	0042.0	0044.0	8.0	95.0			0
	245	LEAR	8 S	0042.0	0043.0	2.0	220.0			QL=4 ST=2 TYP=3
	500	HIRA	4 S/F	0042.0	0044.0	10.0	35.0			WR
	1415	LEAR	8 S	0043.0	0043.0	U	63.0			QL=2 ST=2 TYP=3
	2695	LEAR	8 S	0043.0	0043.0	U	87.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0043.0	0043.0	1.0	240.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0043.0	0043.0	2.0	440.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0043.0	0043.0	2.0	320.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0043.0	0043.0	U	180.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0043.0	0043.0	U	54.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0043.0	0043.0	U	74.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0043.0	0043.0	U	110.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0043.0	0043.0	1.0	270.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0043.0	0043.0	2.0	480.0			QL=4 ST=2 TYP=3

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Oct 04

SOLAR RADIO EMISSION Outstanding Occurrences

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
30	15400	PALE	8 S	0043.0	0043.0	2.0	340.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0044.0	0044.0	U	97.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0044.0	0044.0	U	130.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0047.0	0048.0	1.0	65.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0047.0	0048.0	1.0	84.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0047.0	0048.0	2.0	87.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0048.0	0048.0	U	67.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0051.0	0051.0	U	71.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0056.0	0056.0	U	57.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0102.0	0102.0	U	70.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0109.0	0110.0	2.0	120.0			QL=4 ST=2 TYP=3
	500	HIRA	8 S	0205.0	0206.0	2.0	55.0			0
	410	PALE	8 S	0206.0	0206.0	U	62.0			QL=4 ST=2 TYP=3
	2840	PEKG	3 S	0208.0	0211.7	10.0	60.7			
	2800	HIRA	4 S/F	0210.0	0211.0	4.0	85.0			SL
	2695	PALE	8 S	0210.0	0211.0	2.0	110.0			QL=4 ST=2 TYP=3
	2804	VORO	40 F	0210.0	0211.0	5.0	101.5			
	500	HIRA	4 S/F	0211.0	0212.0	3.0	5.0			0
	1415	LEAR	8 S	0211.0	0211.0	U	170.0			QL=2 ST=2 TYP=3
	2695	LEAR	8 S	0211.0	0211.0	U	83.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0211.0	0211.0	1.0	140.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0211.0	0211.0	2.0	270.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0211.0	0211.0	2.0	300.0			QL=4 ST=2 TYP=3
	410	PALE	8 S	0211.0	0211.0	U	56.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0211.0	0211.0	U	190.0			QL=4 ST=2 TYP=3
	4995	PALE	8 S	0211.0	0211.0	1.0	160.0			QL=4 ST=2 TYP=3
	8800	PALE	8 S	0211.0	0211.0	2.0	300.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	0211.0	0211.0	2.0	280.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0308.0	0310.3	6.0	35.7			
	2804	VORO	3 S	0308.8	0310.1	3.5	18.3			
	2800	HIRA	1 S	0310.0	0311.0	3.0	20.0			0
	2840	PEKG	3 S	0327.0	0330.5	13.0	145.0			
	2804	VORO	4 S/F	0328.8	0330.4	10.0	118.1			
	245	LEAR	48 C	0329.0	0330.0	5.0	7700.0			QL=4 ST=2 TYP=8
	4995	LEAR	48 C	0329.0	0330.0	5.0	380.0			QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0329.0	0330.0	7.0	590.0			QL=4 ST=2 TYP=8
	15400	LEAR	48 C	0329.0	0331.0	7.0	560.0			QL=4 ST=2 TYP=8
	1415	LEAR	8 S	0329.0	0330.0	2.0	110.0			QL=2 ST=2 TYP=3
	2695	LEAR	8 S	0329.0	0330.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	PALE	48 C	0329.0	0330.0	4.0	6700.0			QL=4 ST=2 TYP=8
	4995	PALE	48 C	0329.0	0330.0	3.0	280.0			QL=4 ST=2 TYP=8
	8800	PALE	48 C	0329.0	0330.0	5.0	480.0			QL=4 ST=2 TYP=8
	2800	HIRA	4 S/F	0329.0	0331.0	10.0	135.0			WL
	500	HIRA	4 S/F	0330.0	0331.0	8.0	40.0			0
	410	LEAR	48 C	0330.0	0332.0	2.0	100.0			QL=4 ST=2 TYP=8
	610	LEAR	8 S	0330.0	0330.0	U	110.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	0330.0	0332.0	4.0	170.0			QL=4 ST=2 TYP=8
	610	PALE	8 S	0330.0	0330.0	U	82.0			QL=4 ST=2 TYP=3
	1415	PALE	8 S	0330.0	0330.0	U	60.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	0330.0	0330.0	U	55.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0410.0	0413.9	8.0	19.6			
	2804	VORO	46 C	0410.5	0414.0	5.0	18.3			
	2800	HIRA	1 S	0411.0	0414.0	4.0	20.0			0
	500	HIRA	3 S	0411.0	0414.0	5.0	25.0			0
	245	LEAR	49 GB	0413.0	0413.0	U	940.0			QL=4 ST=2 TYP=6
	410	LEAR	8 S	0413.0	0413.0	1.0	67.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0413.0	0413.0	U	56.0			QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	0421.0	0421.9	2.1	10.6			
	2840	PEKG	45 C	0449.0	0455.5	12.0	40.0			
	2800	HIRA	4 S/F	0453.0	0456.0	5.0	45.0			SL
	245	LEAR	8 S	0453.0	0453.0	U	75.0			QL=4 ST=3 TYP=3
	8800	LEAR	8 S	0455.0	0455.0	U	59.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0455.0	0455.0	U	66.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0455.0	0455.0	U	67.0			QL=4 ST=2 TYP=3
	2840	PEKG	5 S	0527.0	0530.2	6.0	17.5			
	2800	HIRA	1 S	0530.0	0531.0	2.0	15.0			0
	245	LEAR	8 S	0530.0	0530.0	U	65.0			QL=4 ST=2 TYP=3
	2800	HIRA	1 S	0551.0	0553.0	4.0	15.0			0
	8800	LEAR	8 S	0552.0	0552.0	U	55.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N

Outstanding Occurrences

19
Oct 04

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
30	245	SVTO	8 S	0552.0	0554.0	2.0	170.0			QL=2 ST=2 TYP=3
	245	LEAR	8 S	0553.0	0554.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0609.0	0610.0	8.0	1100.0			QL=4 ST=2 TYP=8
	245	SVTO	48 C	0609.0	0610.0	14.0	1500.0			QL=4 ST=2 TYP=8
	204	IZMI	45 C	0609.8	0609.9	0.9	7341.0			
	2950	GORK	46 C	0610.3	0613.4	13.1	93.0			
	2950	GORK	46 C	0610.3	0614.8		83.0			
	500	HIRA	47 GB	0611.0	0615.0	9.0	605.0			WR
	610	LEAR	48 C	0611.0	0614.0	4.0	850.0			QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0611.0	0614.0	4.0	350.0			QL=2 ST=2 TYP=8
	410	LEAR	49 GB	0611.0	0613.0	4.0	2800.0			QL=4 ST=2 TYP=6
	1415	SVTO	48 C	0611.0	0614.0	7.0	400.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	0611.0	0614.0	8.0	630.0			QL=4 ST=2 TYP=8
	410	SVTO	49 GB	0611.0	0613.0	8.0	2700.0			QL=4 ST=2 TYP=6
	610	SVTO	48 C	0611.0	0614.0	15.0	700.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	0611.0	0614.0	11.0	940.0			QL=4 ST=2 TYP=8
	127	TORN	49 GB	0611.0U	0617.0	15.0D	2300.0	490.0		
	410	SVTO	49 GB	0611.0	0613.0	1069.0	2700.0			QL=4 ST=1 TYP=6
	610	SVTO	49 GB	0611.0	0613.0	1069.0	640.0			QL=4 ST=1 TYP=6
	610	SVTO	49 GB	0611.0	0614.0	1069.0	700.0			QL=4 ST=1 TYP=6
	8800	SVTO	49 GB	0611.0	0614.0	1069.0	630.0			QL=4 ST=1 TYP=6
	15400	SVTO	49 GB	0611.0	0614.0	1069.0	940.0			QL=4 ST=1 TYP=6
	1415	SVTO	4 S/F	0611.0	0613.0	1069.0	400.0			QL=4 ST=1 TYP=3
	1415	SVTO	4 S/F	0611.0	0614.0	1069.0	400.0			QL=4 ST=1 TYP=3
	8800	SVTO	4 S/F	0611.0	0613.0	1069.0	360.0			QL=4 ST=1 TYP=3
	15400	SVTO	4 S/F	0611.0	0613.0	1069.0	430.0			QL=4 ST=1 TYP=3
	900	GORK	46 C	0611.3U	0613.7	9.9D	450.0			
	900	GORK	46 C	0611.3U	0614.8	3.5D	680.0			
	204	IZMI	42 SER	0611.3	0614.8	9.8	116.0			
	9100	GORK	46 C	0611.4	0614.7	15.6	62.0			
	9100	GORK	46 C	0611.4	0616.8		225.0			
	4995	LEAR	48 C	0612.0	0614.0	7.0	240.0			QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0612.0	0614.0	7.0	630.0			QL=4 ST=2 TYP=8
	4995	SVTO	48 C	0612.0	0614.0	7.0	220.0			QL=4 ST=2 TYP=8
	2695	SVTO	4 S/F	0612.0	0614.0	4.0	170.0			QL=4 ST=2 TYP=3
	2800	HIRA	7 C	0612.0	0613.0	11.0	105.0			SL
	2695	SVTO	4 S/F	0612.0	0613.0	1068.0	110.0			QL=4 ST=1 TYP=3
	2695	SVTO	4 S/F	0612.0	0614.0	1068.0	170.0			QL=4 ST=1 TYP=3
	4995	SVTO	4 S/F	0612.0	0613.0	1068.0	150.0			QL=4 ST=1 TYP=3
	4995	SVTO	4 S/F	0612.0	0614.0	1068.0	220.0			QL=4 ST=1 TYP=3
	15400	LEAR	48 C	0613.0	0614.0	6.0	1500.0			QL=4 ST=2 TYP=8
	2695	LEAR	8 S	0613.0	0614.0	2.0	130.0			QL=4 ST=2 TYP=3
	900	GORK	41 F	0636.5	0645.6		4.3			
	900	GORK	41 F	0636.5	0643.8	10.4	2.5			
	9100	GORK	4 S/F	0644.0	0644.7	1.8	27.0			
	2950	GORK	2 S/F	0644.2	0645.0	1.7	4.9			
	2950	GORK	28 PRE	0654.0	0654.7	3.8	3.1			
	900	GORK	41 F	0655.2	0656.7		8.4			
	900	GORK	41 F	0655.2	0655.9	1.6	12.0			
	9100	GORK	3 S	0657.3	0659.4U	9.0	255.0U			
	2950	GORK	46 C	0657.8	0659.3	8.2	65.0			
	2950	GORK	46 C	0657.8	0659.9		51.0			
	2800	HIRA	3 S	0658.0	0700.0	4.0	55.0			0
	4995	LEAR	4 S/F	0658.0	0659.0	3.0	200.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0658.0	0659.0	3.0	470.0			QL=4 ST=2 TYP=3
	15400	SVTO	49 GB	0658.0	0659.0	3.0	600.0			QL=4 ST=2 TYP=6
	2695	SVTO	8 S	0658.0	0659.0	2.0	61.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0658.0	0659.0	3.0	210.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0658.0	0659.0	3.0	470.0			QL=4 ST=2 TYP=3
	900	GORK	4 S/F	0658.3	0700.0	5.9	25.0			
	3000	IZMI	45 C	0658.8	0659.3	1.8	76.0			
	500	HIRA	3 S	0659.0	0700.0	5.0	20.0			0
	15400	LEAR	49 GB	0659.0	0659.0	2.0	750.0			QL=4 ST=2 TYP=6
	245	LEAR	8 S	0659.0	0659.0	U	92.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	0659.0	0659.0	5.0	87.0			QL=4 ST=2 TYP=8
	410	SVTO	8 S	0659.0	0700.0	2.0	67.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0700.0	0700.0	2.0	92.0			QL=2 ST=2 TYP=3
	204	IZMI	42 SER	0700.3	0701.5	2.1	64.0			
	245	LEAR	8 S	0703.0	0704.0	1.0	100.0			QL=4 ST=2 TYP=3

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SOLAR RADIO EMISSION

Outstanding Occurrences

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
30	204	IZMI	41 F	0732.3	0732.6	0.7	51.0			
	9100	GORK	7 C	0810.0	0812.3	8.0	13.0			
	9100	GORK	7 C	0810.0	0815.5		9.3			
	33	UPIC	42 SER	0811.0	0927.0	77.0				
	900	GORK	42 SER	0811.8	0826.5		37.0			
	900	GORK	42 SER	0811.8	0818.5	15.1	300.0			
	900	GORK	42 SER	0811.8	0821.9		13.0			
	2950	GORK	40 F	0812.0	0812.3	5.3	7.5			
	2950	GORK	46 C	0820.7	0822.6		47.0			
	2950	GORK	46 C	0820.7	0820.9	2.8	3.7			
	204	IZMI	42 SER	0820.8	0822.0	3.6	24.0			
	9100	GORK	2 S/F	0821.5	0821.7	0.7	7.9			
	1415	LEAR	8 S	0824.0	0824.0	U	62.0			QL=2 ST=2 TYP=3
	1415	SVTO	8 S	0824.0	0824.0	U	77.0			QL=4 ST=2 TYP=3
	9100	GORK	1 S	0846.9	0848.4	2.5	6.7			
	2950	GORK	2 S/F	0847.7	0848.3	2.3	3.7			
	900	GORK	4 S/F	0847.9	0848.3	1.8	19.0			
	204	IZMI	42 SER	0848.0	0848.3	1.3	103.0			
	900	GORK	7 C	0850.7	0851.5	2.2	5.1			
	900	GORK	7 C	0850.7	0852.6		5.1			
	2950	GORK	28 PRE	0850.8	0851.5	3.8	7.5			
	9100	GORK	4 S/F	0851.0	0852.4	2.2	17.0			
	610	SVTO	48 C	0854.0	0857.0	7.0	290.0			QL=2 ST=2 TYP=8
	245	SVTO	4 S/F	0854.0	0858.0	6.0	87.0			QL=4 ST=2 TYP=3
	900	GORK	4 S/F	0854.4	0856.6	5.5	34.0			
	9100	GORK	4 S/F	0854.6	0856.4	9.2	140.0			
	2950	GORK	46 C	0854.6	0856.5	6.9	64.0			
	2950	GORK	46 C	0854.6	0856.7		51.0			
	204	IZMI	42 SER	0854.8	0856.4	4.7	129.0			
	4995	SVTO	4 S/F	0855.0	0856.0	3.0	100.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0855.0	0856.0	4.0	160.0			QL=4 ST=2 TYP=3
	4995	LEAR	8 S	0856.0	0856.0	U	100.0			QL=4 ST=2 TYP=3
	8800	LEAR	8 S	0856.0	0856.0	U	140.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0856.0	0856.0	U	97.0			QL=4 ST=2 TYP=3
	245	LEAR	4 S/F	0856.0	0858.0	3.0	100.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0856.0	0856.0	1.0	70.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0856.0	0856.0	U	33.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0856.0	0856.0	1.0	100.0			QL=4 ST=2 TYP=3
	3000	IZMI	20 GRF	0856.0	0856.5	1.3	19.0	7.2		
	245	LEAR	8 S	0907.0	0907.0	U	77.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0907.0	0907.0	U	71.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0909.0	0915.0	9.0	1100.0			QL=4 ST=2 TYP=8
	245	SVTO	48 C	0910.0	0915.0	8.0	1600.0			QL=4 ST=2 TYP=8
	410	LEAR	48 C	0911.0	0915.0	7.0	1400.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	0911.0	0915.0	7.0	1800.0			QL=4 ST=2 TYP=8
	204	IZMI	42 SER	0911.3	0917.3	10.2	53.0			
	3000	IZMI	42 SER	0911.9	0915.5	9.8	126.0			
	610	LEAR	48 C	0912.0	0915.0	5.0	380.0			QL=4 ST=2 TYP=8
	610	SVTO	48 C	0912.0	0915.0	7.0	460.0			QL=2 ST=2 TYP=8
	2695	SVTO	48 C	0912.0	0915.0	5.0	160.0			QL=4 ST=2 TYP=8
	900	GORK	46 C	0912.0U	0913.1	24.70	40.0			
	9100	GORK	46 C	0912.0U	0927.4		295.0			
	2950	GORK	46 C	0912.0U	0917.4		110.0			
	2950	GORK	46 C	0912.0U	0927.5		70.0			
	2950	GORK	46 C	0912.0U	0915.5	27.50	200.0			
	9100	GORK	46 C	0912.0U	0917.6	28.80	215.0			
	900	GORK	46 C	0912.0U	0915.7		1100.0			
	900	GORK	46 C	0912.0U	0927.7		60.0			
	2695	LEAR	48 C	0915.0	0915.0	2.0	100.0			QL=4 ST=2 TYP=8
	4995	LEAR	48 C	0915.0	0915.0	3.0	160.0			QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0915.0	0917.0	3.0	210.0			QL=4 ST=2 TYP=8
	15400	LEAR	48 C	0915.0	0917.0	2.0	190.0			QL=4 ST=2 TYP=8
	1415	LEAR	8 S	0915.0	0915.0	U	75.0			QL=2 ST=2 TYP=3
	4995	SVTO	48 C	0915.0	0915.0	5.0	180.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	0915.0	0917.0	5.0	250.0			QL=4 ST=2 TYP=8
	15400	SVTO	48 C	0915.0	0917.0	2.0	170.0			QL=4 ST=2 TYP=8
	1415	SVTO	8 S	0915.0	0915.0	U	85.0			QL=4 ST=2 TYP=3
	204	IZMI	42 SER	0921.9	0925.0	10.0	140.0U			
	3000	IZMI	42 SER	0922.6	0927.5	6.3	66.0			

S O L A R R A D I O E M I S S I O N

Outstanding Occurrences

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OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
30	245	LEAR	48 C	0924.0	0925.0	6.0	1400.0			QL=4 ST=2 TYP=8
	245	SVTO	49 GB	0924.0	0925.0	6.0	2200.0			QL=4 ST=2 TYP=6
	4995	LEAR	8 S	0925.0	0927.0	2.0	180.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0925.0	0927.0	3.0	270.0			QL=4 ST=2 TYP=3
	410	SVTO	48 C	0925.0	0927.0	2.0	170.0			QL=4 ST=2 TYP=8
	2695	SVTO	8 S	0925.0	0927.0	2.0	63.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	0925.0	0927.0	3.0	200.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	0925.0	0927.0	3.0	310.0			QL=4 ST=2 TYP=3
	15400	LEAR	8 S	0926.0	0927.0	1.0	380.0			QL=4 ST=2 TYP=3
	410	LEAR	8 S	0927.0	0927.0		180.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0927.0	0927.0		370.0			QL=4 ST=2 TYP=3
	610	SVTO	8 S	0928.0	0929.0	2.0	130.0			QL=2 ST=2 TYP=3
	900	GORK	42 SER	0946.2	0951.3		17.0			
	900	GORK	42 SER	0946.2	0946.3	11.8	10.0			
	900	GORK	42 SER	0946.2	0953.4		10.0			
	9100	GORK	7 C	0949.0	0950.2	2.4	12.0			
	9100	GORK	7 C	0949.0	0951.2		10.0			
	2950	GORK	1 S	0949.3	0950.0	1.4	3.7			
	9100	GORK	2 S/F	0957.4	0958.0	1.4	7.9			
	2950	GORK	1 S	0957.4	0958.0	1.6	3.7			
	204	IZMI	42 SER	1009.2	1025.3	39.3	104.0			
	900	GORK	7 C	1009.5	1010.0	1.7	8.4			
	9100	GORK	4 S/F	1009.5U	1010.4	5.3D	29.0			
	2950	GORK	4 S/F	1009.5U	1010.4	6.0D	30.0			
	900	GORK	7 C	1009.5	1010.4		12.0			
	3000	IZMI	42 SER	1009.7	1028.4	30.5	49.0			
	610	SVTO	48 C	1017.0	1025.0	19.0	380.0			QL=2 ST=2 TYP=8
	245	SVTO	48 C	1018.0	1029.0	12.0	78.0			QL=4 ST=2 TYP=8
	900	GORK	46 C	1022.5	1028.4	13.5	44.0			
	900	GORK	46 C	1022.5	1029.8		64.0			
	2950	GORK	46 C	1022.8	1028.4	19.2	50.0			
	2950	GORK	46 C	1022.8	1029.7		70.0			
	2950	GORK	46 C	1022.8	1033.7		50.0			
	2695	SVTO	4 S/F	1023.0	1028.0	7.0	56.0			QL=4 ST=2 TYP=3
	4995	SVTO	48 C	1023.0	1029.0	13.0	100.0			QL=4 ST=2 TYP=8
	9100	GORK	46 C	1023.3	1030.0	20.1	115.0			
	9100	GORK	46 C	1023.3	1033.5		120.0			
	410	SVTO	48 C	1026.0	1029.0	8.0	65.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1026.0	1029.0	9.0	110.0			QL=4 ST=2 TYP=8
	1415	SVTO	4 S/F	1026.0	1028.0	3.0	40.0			QL=4 ST=2 TYP=3
	15400	SVTO	48 C	1028.0	1029.0	6.0	80.0			QL=4 ST=2 TYP=8
	33	UPIC	45 C	1033.0	1033.5	1.0				
	245	SVTO	8 S	1039.0	1039.0		54.0			QL=4 ST=2 TYP=3
	900	GORK	41 F	1039.0	1041.8	14.5	40.0			
	900	GORK	41 F	1039.0	1046.9		24.0			
	204	IZMI	42 SER	1112.0	1113.7	2.1	104.0			
	245	SVTO	49 GB	1113.0	1113.0		780.0			QL=4 ST=2 TYP=6
	33	UPIC	45 C	1118.0	1119.0	2.0				
	3000	IZMI	22 GRF	1118.4	1120.6	4.9	33.0	15.6		
	410	SVTO	8 S	1119.0	1119.0		67.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1119.0	1120.0	1.0	60.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1119.0	1120.0	1.0	62.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1120.0	1120.0		68.0			QL=4 ST=2 TYP=3
	610	SVTO	48 C	1138.0	1153.0	17.0	910.0			QL=2 ST=2 TYP=8
	204	IZMI	42 SER	1138.1	1142.9	20.2	4682.0			
	4995	SVTO	48 C	1141.0	1144.0	9.0	870.0			QL=4 ST=2 TYP=8
	410	SVTO	49 GB	1141.0	1144.0	9.0	1400.0			QL=4 ST=2 TYP=6
	2695	SVTO	49 GB	1141.0	1144.0	7.0	720.0			QL=4 ST=2 TYP=6
	1415	SVTO	4 S/F	1141.0	1144.0	6.0	300.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1141.0	1145.0	14.0	1800.0			QL=4 ST=2 TYP=8
	8800	SVTO	48 C	1141.0	1144.0	10.0	1500.0			QL=4 ST=2 TYP=8
	3000	IZMI	45 C	1141.8	1144.0	6.8	465.0			
	4995	SGMR	48 C	1142.0	1144.0	7.0	760.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1142.0	1144.0	7.0	1400.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1142.0	1144.0	5.0	2700.0			QL=4 ST=2 TYP=8
	410	SGMR	49 GB	1142.0	1144.0	5.0	940.0			QL=4 ST=2 TYP=6
	2695	SGMR	49 GB	1142.0	1144.0	5.0	590.0			QL=4 ST=2 TYP=6
	610	SGMR	4 S/F	1142.0	1143.0	4.0	450.0			QL=4 ST=2 TYP=3
	1415	SGMR	4 S/F	1142.0	1144.0	5.0	270.0			QL=4 ST=2 TYP=3

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SOLAR RADIO EMISSION

Outstanding Occurrences

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
30	15400	SVTO	48 C	1142.0	1144.0	9.0	3200.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1142.0	1145.0	14.0	1100.0			QL=4 ST=2 TYP=8
	33	UPIC	47 GB	1142.0	1143.0	10.0				
	2695	SGMR	49 GB	1142.0	1144.0	738.0	590.0			QL=4 ST=1 TYP=6
	4995	SGMR	49 GB	1142.0	1144.0	738.0	760.0			QL=4 ST=1 TYP=6
	8800	SGMR	49 GB	1142.0	1144.0	738.0	1400.0			QL=4 ST=1 TYP=6
	15400	SGMR	49 GB	1142.0	1144.0	738.0	2700.0			QL=4 ST=1 TYP=6
	610	SGMR	4 S/F	1142.0	1142.0	738.0	63.0			QL=4 ST=1 TYP=3
	245	SGMR	8 S	1156.0	1157.0	1.0	58.0			QL=4 ST=2 TYP=3
	33	UPIC	45 C	1159.0	1159.5	1.5				
	410	SGMR	8 S	1224.0	1224.0	U	86.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1224.0	1224.0	U	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1249.0	1249.0	1.0	460.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1249.0	1250.0	1.0	65.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1249.0	1250.0	1.0	71.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1249.0	1250.0	1.0	120.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1249.0	1250.0	1.0	130.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1249.0	1249.0	1.0	55.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1249.0	1249.0	1.0	86.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1249.0	1249.0	1.0	68.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1249.0	1249.0	1.0	610.0			QL=4 ST=2 TYP=6
	410	SVTO	8 S	1249.0	1249.0	1.0	68.0			QL=4 ST=2 TYP=3
	1415	SVTO	8 S	1249.0	1250.0	1.0	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1249.0	1250.0	2.0	170.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1249.0	1249.0	2.0	70.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1249.0	1249.0	1.0	100.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1249.0	1249.0	1.0	89.0			QL=4 ST=2 TYP=3
	33	UPIC	46 C	1250.0	1250.5	2.0				
	8800	SGMR	8 S	1254.0	1255.0	2.0	110.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1254.0	1255.0	2.0	30.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1254.0	1255.0	2.0	78.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1254.0	1255.0	2.0	83.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1254.0	1255.0	5.0	120.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1255.0	1255.0	U	61.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1255.0	1255.0	U	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1255.0	1255.0	2.0	92.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	1313.0	1314.0	4.0	180.0			QL=2 ST=2 TYP=3
	610	SVTO	4 S/F	1313.0	1314.0	4.0	100.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1314.0	1314.0	1.0	140.0			QL=4 ST=2 TYP=3
	610	SGMR	8 S	1314.0	1314.0	1.0	82.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	1314.0	1314.0	1.0	41.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	1314.0	1315.0	1.0	34.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	1314.0	1315.0	1.0	34.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1315.0	1315.0	U	21.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1344.0	1345.0	2.0	140.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1344.0	1345.0	2.0	120.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1344.0	1345.0	2.0	57.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	1344.0	1345.0	2.0	99.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1344.0	1345.0	5.0	120.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1344.0	1345.0	5.0	100.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1345.0	1345.0	1.0	91.0			QL=4 ST=2 TYP=3
	410	SGMR	48 C	1359.0	1403.0	4.0	190.0			QL=4 ST=2 TYP=8
	610	SGMR	48 C	1359.0	1401.0	4.0	260.0			QL=4 ST=2 TYP=8
	2695	SGMR	8 S	1359.0	1359.0	U	52.0			QL=4 ST=2 TYP=3
	410	SVTO	48 C	1359.0	1402.0	4.0	190.0			QL=4 ST=2 TYP=8
	610	SVTO	48 C	1359.0	1400.0	4.0	270.0			QL=4 ST=2 TYP=8
	245	SVTO	49 GB	1359.0	1402.0	4.0	580.0			QL=2 ST=2 TYP=6
	1415	SVTO	4 S/F	1359.0	1400.0	4.0	48.0			QL=4 ST=2 TYP=3
	2695	SVTO	4 S/F	1359.0	1359.0	4.0	61.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1400.0	1401.0	3.0	70.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1400.0	1401.0	3.0	80.0			QL=4 ST=2 TYP=3
	4995	SVTO	4 S/F	1400.0	1401.0	3.0	53.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1400.0	1400.0	3.0	56.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1400.0	1401.0	3.0	49.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1401.0	1402.0	3.0	570.0			QL=4 ST=2 TYP=6
	15400	SGMR	8 S	1401.0	1401.0	U	53.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	1412.0	1413.0	2.0	21000.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1413.0	1413.0	2.0	9500.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1413.0	1413.0	U	170.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N

Outstanding Occurrences

23
Oct 04

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
30	410	SVTO	8 S	1413.0	1413.0	U	240.0			QL=4 ST=2 TYP=3
	245	SVTO	48 C	1422.0	1430.0	14.0	9800.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1427.0	1430.0	9.0	3900.0			QL=4 ST=2 TYP=8
	410	SVTO	48 C	1432.0	1432.0	4.0	62.0			QL=4 ST=2 TYP=8
	410	SGMR	4 S/F	1433.0	1436.0	3.0	79.0			QL=4 ST=2 TYP=3
	2695	SGMR	8 S	1436.0	1436.0	U	110.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1436.0	1436.0	U	210.0			QL=4 ST=2 TYP=3
	4995	SVTO	48 C	1439.0	1444.0	8.0	230.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	1440.0	1440.0	U	72.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1441.0	1441.0	1.0	56.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	1441.0	1441.0	U	24.0			QL=4 ST=2 TYP=3
	8800	SVTO	4 S/F	1441.0	1446.0	6.0	48.0			QL=4 ST=2 TYP=3
	15400	SVTO	4 S/F	1441.0	1441.0	6.0	34.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1446.0	1446.0	U	50.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1446.0	1446.0	U	46.0			QL=4 ST=2 TYP=3
	1415	SGMR	8 S	1531.0	1531.0	U	64.0			QL=4 ST=2 TYP=3
	4995	SGMR	4 S/F	1551.0	1553.0	3.0	75.0			QL=4 ST=2 TYP=3
	8800	SGMR	4 S/F	1551.0	1553.0	3.0	150.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1552.0	1553.0	2.0	120.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1554.0	1554.0	U	62.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1621.0	1621.0	U	99.0			QL=4 ST=2 TYP=3
	610	SGMR	48 C	1623.0	1624.0	8.0	1100.0			QL=4 ST=2 TYP=8
	410	SGMR	48 C	1623.0	1624.0	10.0	470.0			QL=4 ST=2 TYP=8
	1415	SGMR	48 C	1623.0	1624.0	10.0	190.0			QL=4 ST=2 TYP=8
	2695	SGMR	48 C	1623.0	1624.0	11.0	300.0			QL=4 ST=2 TYP=8
	4995	SGMR	48 C	1623.0	1624.0	11.0	690.0			QL=4 ST=2 TYP=8
	8800	SGMR	48 C	1623.0	1624.0	12.0	1300.0			QL=4 ST=2 TYP=8
	15400	SGMR	48 C	1623.0	1624.0	12.0	2000.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	1624.0	1632.0	10.0	620.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	1643.0	1643.0	U	53.0			QL=4 ST=2 TYP=3
	245	PALE	49 GB	1802.0	1802.0	1.0	2400.0			QL=4 ST=2 TYP=6
	410	PALE	8 S	1802.0	1802.0	U	170.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1802.0	1802.0	1.0	1400.0			QL=4 ST=2 TYP=6
	410	SGMR	8 S	1802.0	1802.0	U	94.0			QL=4 ST=2 TYP=3
	245	PALE	48 C	2006.0	2009.0	3.0	2200.0			QL=4 ST=2 TYP=8
	245	SGMR	48 C	2006.0	2009.0	3.0	1200.0			QL=4 ST=2 TYP=8
	4995	PALE	4 S/F	2154.0	2156.0	5.0	140.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	2154.0	2155.0	5.0	140.0			QL=4 ST=2 TYP=3
	2695	PALE	8 S	2155.0	2156.0	2.0	59.0			QL=4 ST=2 TYP=3
	15400	PALE	8 S	2155.0	2156.0	2.0	92.0			QL=4 ST=2 TYP=3
31	245	LEAR	43 NS	0251.0	0326.0	35.0	360.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	0251.0	0251.0	1269.0	59.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	0251.0	0300.0	1269.0	59.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	0251.0	0307.0	1269.0	78.0			QL=4 ST=3 TYP=1
	245	LEAR	43 NS	0558.0	0625.0	86.0	270.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0630.0E		510.0D		30.0		V=1
	204	IZMI	43 NS	0700.0		300.0D		15.0		
	235	CUBA	44 NS	1430.0E		480.0D		12.0		
	280	CUBA	44 NS	1430.0E		480.0D		18.0		
	2804	VORO	40 F	0046.7	0048.9	2.5	18.0			
	245	LEAR	8 S	0142.0	0142.0	U	62.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0218.0	0218.0	U	67.0			QL=4 ST=2 TYP=3
	500	HIRA	7 C	0218.0	0223.0	11.0	40.0			0
	2804	VORO	40 F	0218.2	0222.8	12.5	31.1			
	2800	HIRA	7 C	0219.0	0225.0	11.0	75.0			0
	1415	LEAR	8 S	0221.0	0221.0	1.0	99.0			QL=2 ST=2 TYP=3
	1415	PALE	8 S	0221.0	0221.0	1.0	100.0			QL=4 ST=2 TYP=3
	610	LEAR	8 S	0222.0	0222.0	U	99.0			QL=4 ST=2 TYP=3
	4995	LEAR	4 S/F	0222.0	0227.0	6.0	72.0			QL=4 ST=2 TYP=3
	8800	LEAR	4 S/F	0222.0	0222.0	6.0	77.0			QL=4 ST=2 TYP=3
	15400	LEAR	4 S/F	0222.0	0223.0	5.0	69.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	0222.0	0222.0	U	85.0			QL=4 ST=2 TYP=3
	4995	PALE	4 S/F	0222.0	0227.0	6.0	76.0			QL=4 ST=2 TYP=3
	8800	PALE	4 S/F	0222.0	0222.0	5.0	66.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0223.0	0223.0	3.0	1000.0			QL=4 ST=2 TYP=8
	410	LEAR	8 S	0223.0	0223.0	U	220.0			QL=4 ST=2 TYP=3
	245	PALE	48 C	0223.0	0224.0	3.0	950.0			QL=4 ST=2 TYP=8
	410	PALE	8 S	0223.0	0223.0	U	310.0			QL=4 ST=2 TYP=3

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Oct 04

SOLAR RADIO EMISSION

Outstanding Occurrences

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
31	245	LEAR	8 S	0236.0	0236.0	U	66.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0236.0	0236.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0247.0	0247.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0247.0	0247.0	U	88.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	0301.0	0301.0	U	63.0			QL=4 ST=2 TYP=3
	2804	VORO	20 GRF	0326.2	0327.2	14.0	7.9			
	245	LEAR	8 S	0423.0	0423.0	1.0	210.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0428.0	0428.0	U	330.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0440.0	0440.0	U	220.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0453.0	0453.0	U	150.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0503.0	0503.0	U	76.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0507.0	0507.0	U	250.0			QL=4 ST=2 TYP=3
	2804	VORO	2 S/F	0517.2	0518.1	2.5	7.3			
	2804	VORO	28 PRE	0522.9	0523.5	2.3	12.4			
	245	LEAR	48 C	0523.0	0526.0	9.0	470.0			QL=4 ST=2 TYP=8
	2800	HIRA	7 C	0523.0	0527.0	18.0	200.0			0
	500	HIRA	7 C	0524.0	0527.0	15.0	100.0			WR
	610	LEAR	48 C	0525.0	0527.0	7.0	470.0			QL=4 ST=2 TYP=8
	1415	LEAR	48 C	0525.0	0527.0	7.0	240.0			QL=2 ST=2 TYP=8
	2804	VORO	46 C	0525.4	0526.8	5.0	113.0			
	2804	VORO	46 C	0525.4	0531.8	10.0	67.7			
	410	LEAR	48 C	0526.0	0526.0	6.0	310.0			QL=4 ST=2 TYP=8
	2695	LEAR	8 S	0526.0	0527.0	2.0	190.0			QL=4 ST=2 TYP=3
	4995	LEAR	48 C	0526.0	0526.0	11.0	410.0			QL=4 ST=2 TYP=8
	8800	LEAR	48 C	0526.0	0526.0	11.0	780.0			QL=4 ST=2 TYP=8
	15400	LEAR	48 C	0526.0	0526.0	10.0	800.0			QL=4 ST=2 TYP=8
	2695	LEAR	4 S/F	0526.0	0526.0	1114.0	160.0			QL=4 ST=1 TYP=3
	245	LEAR	8 S	0547.0	0547.0	U	58.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0641.0	0641.0	U	650.0			QL=4 ST=2 TYP=6
	245	SVTO	8 S	0641.0	0641.0	U	480.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0641.0	0641.0	U	81.0			QL=4 ST=2 TYP=3
	900	GORK	41 F	0732.0	0732.3	4.1	15.0			
	900	GORK	41 F	0732.0	0735.9		7.7			
	9100	GORK	2 S/F	0733.5	0734.0	1.5	9.5			
	245	LEAR	8 S	0809.0	0809.0	U	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0809.0	0809.0	U	130.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0836.0	0836.0	1.0	83.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0837.0	0837.0	U	73.0			QL=4 ST=2 TYP=3
	2950	GORK	2 S/F	0841.0	0841.8	5.2	6.5			
	9100	GORK	4 S/F	0841.1	0841.8	4.1	6.7			
	900	GORK	2 S/F	0843.2	0843.5	1.0	17.0			
	245	LEAR	8 S	0847.0	0847.0	U	240.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0847.0	0847.0	U	180.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0847.0	0847.0	U	120.0			QL=4 ST=2 TYP=3
	245	LEAR	49 GB	0919.0	0919.0	3.0	6900.0			QL=4 ST=2 TYP=6
	410	LEAR	8 S	0919.0	0919.0	U	210.0			QL=4 ST=2 TYP=3
	245	SVTO	49 GB	0919.0	0919.0	3.0	10000.0			QL=4 ST=2 TYP=6
	410	SVTO	49 GB	0919.0	0919.0	1.0	530.0			QL=4 ST=2 TYP=6
	1415	SVTO	8 S	0919.0	0919.0	U	31.0			QL=4 ST=2 TYP=3
	2695	SVTO	8 S	0919.0	0919.0	U	50.0			QL=4 ST=2 TYP=3
	4995	SVTO	8 S	0919.0	0919.0	U	46.0			QL=4 ST=2 TYP=3
	8800	SVTO	8 S	0919.0	0919.0	U	48.0			QL=4 ST=2 TYP=3
	15400	SVTO	8 S	0919.0	0919.0	U	41.0			QL=4 ST=2 TYP=3
	2950	GORK	3 S	0919.4	0919.8	1.8	70.0			
	127	TORN	47 GB	0919.5	0920.0	1.2	2100.0	710.0		
	33	UPIC	46 C	0919.5	0920.0	1.0				
	9100	GORK	3 S	0919.5	0919.8	1.0	43.0			
	900	GORK	7 C	0919.7	0920.0	2.2	12.0			
	900	GORK	7 C	0919.7	0920.5		21.0			
	3000	IZMI	20 GRF	0919.7	0919.8	0.4	27.0	11.2		
	204	IZMI	45 C	0919.7	0919.9	0.9	3234.0			
	204	IZMI	41 F	0922.2	0922.3	0.2	129.0			
	15400	LEAR	8 S	0924.0	0924.0	U	92.0			QL=4 ST=2 TYP=3
	204	IZMI	41 F	0924.9	0924.9	0.2	60.0			
	204	IZMI	42 SER	0937.7	0938.6	1.5	44.0			
	900	GORK	42 SER	1014.3	1018.1	12.6	15.0			
	900	GORK	42 SER	1014.3	1026.8		5.8			
	2950	GORK	40 F	1014.6	1026.6	19.3	13.0			
	9100	GORK	2 S/F	1025.5	1026.8	3.2	9.5			

S O L A R R A D I O E M I S S I O N

Outstanding Occurrences

25
Oct 04

OCTOBER 2004

Day	Freq	Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
							Peak (10 -22 W/m 2 Hz)	Mean		
31	245	SVTO	8 S	1114.0	1114.0	U	56.0			QL=4 ST=2 TYP=3
	4995	SGMR	8 S	1138.0	1138.0	1.0	56.0			QL=4 ST=2 TYP=3
	8800	SGMR	8 S	1139.0	1139.0	U	52.0			QL=4 ST=2 TYP=3
	15400	SGMR	8 S	1139.0	1139.0	U	23.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1226.0	1227.0	2.0	140.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1226.0	1227.0	2.0	36.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1238.0	1238.0	U	230.0			QL=4 ST=2 TYP=3
	127	TORN	48 C	1312.7	1314.6	16.5	220.0	30.0		
	245	SVTO	8 S	1326.0	1326.0	2.0	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	1338.0	1338.0	U	230.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1543.0	1543.0	1.0	860.0			QL=4 ST=2 TYP=6
	245	SGMR	49 GB	1602.0	1602.0	U	2600.0			QL=4 ST=2 TYP=6
	245	PALE	8 S	1854.0	1854.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1854.0	1854.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2104.0	2104.0	U	62.0			QL=4 ST=2 TYP=3
	410	PALE	48 C	2110.0	2113.0	3.0	140.0			QL=4 ST=2 TYP=8
	245	PALE	8 S	2110.0	2110.0	1.0	430.0			QL=4 ST=2 TYP=3
	610	PALE	8 S	2110.0	2110.0	U	140.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2117.0	2117.0	U	53.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2126.0	2126.0	U	83.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2223.0	2223.0	U	66.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	2318.0	2320.0	2.0	87.0			QL=4 ST=2 TYP=8
	245	LEAR	8 S	2331.0	2331.0	U	60.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	2353.0	2353.0	U	52.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:

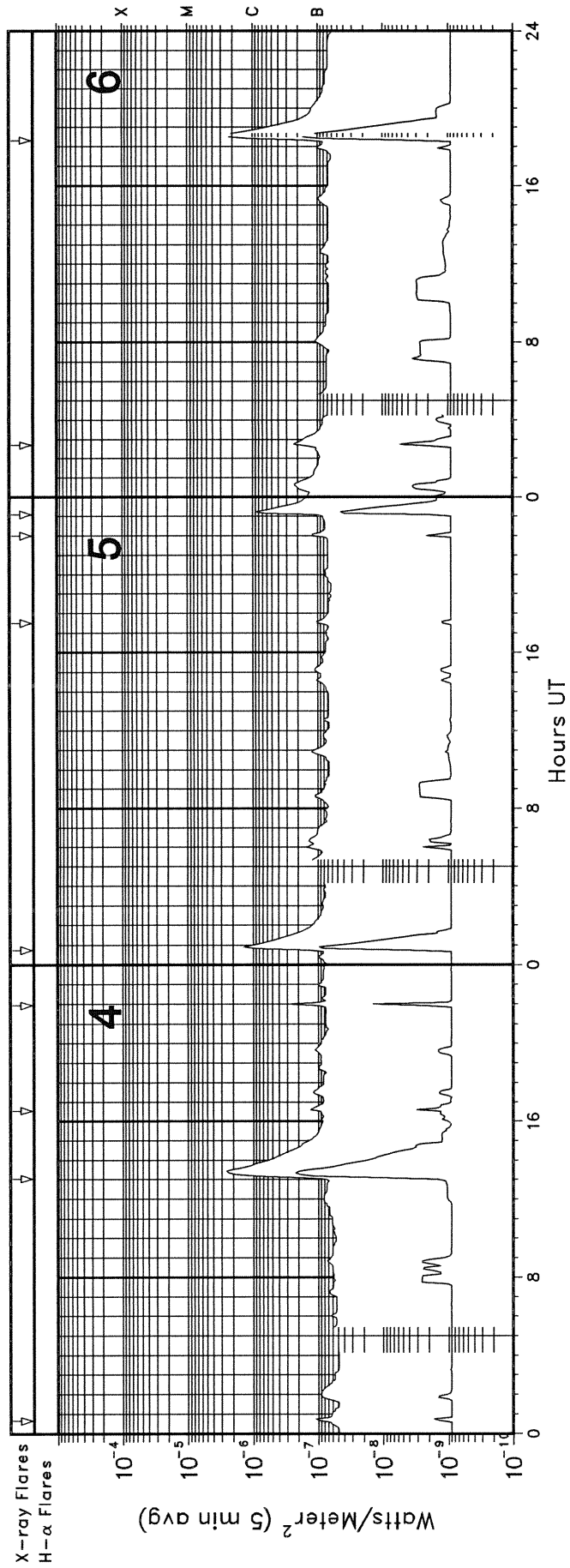
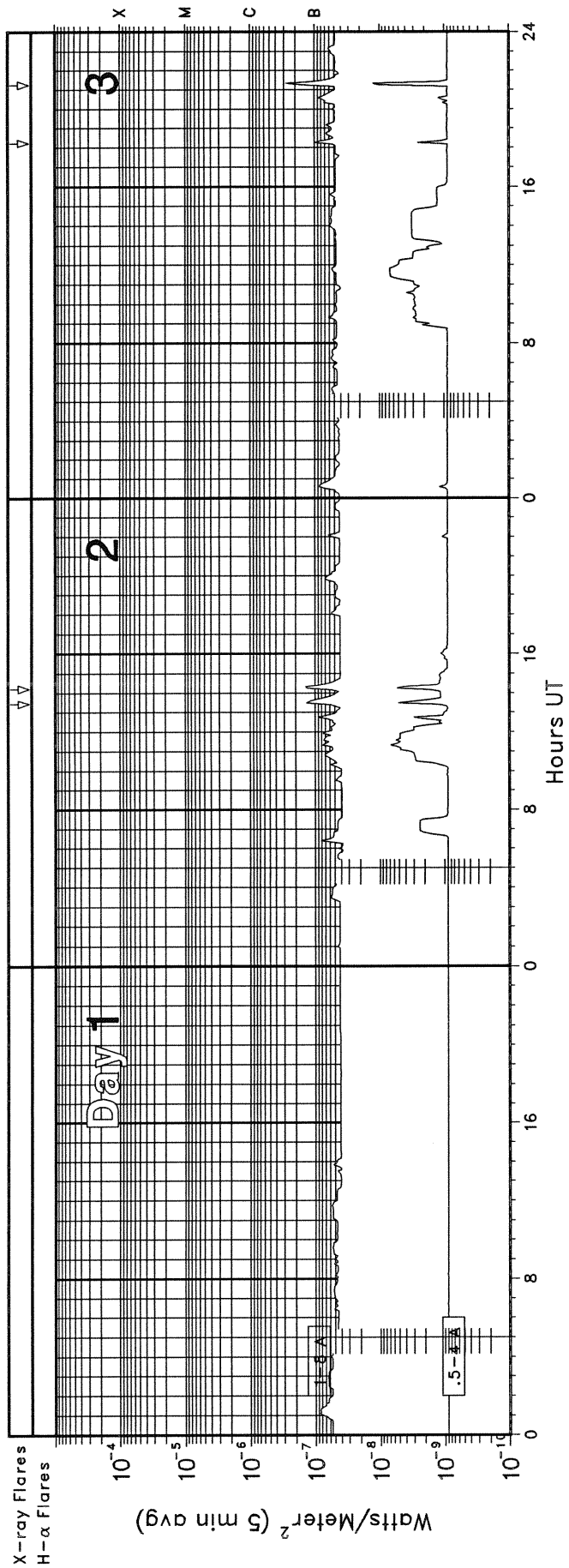
BERN = Berne	HUMN = Humain	ONDR = Ondrejov	SVTO = San Vito
CRIM = Crimea	IZMI = IZMIRAN	PEKG = Peking	TORN = Torun
CUBA = Havana	KISV = Kislovodsk	PALE = Palehua	TRST = Trieste
GORK = Gorky	KRAK = Krakow	PENT = Penticton	TYKW = Toyokawa
HIRA = Hiraiso	LEAR = Learmonth	POTS = Potsdam	UPIC = Upice
HUAN = Huancayo	NOBE = Nobeyama	SGMR = Sagamore Hill	

Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F	
3A Simple 2A	40 Rise Only	16A Fall A	27AF Rise and Fall AF	
21A Simple 3A GRF	40F Rise Only F	260 Fall Only	31A Post Burst Decrease A	
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A	

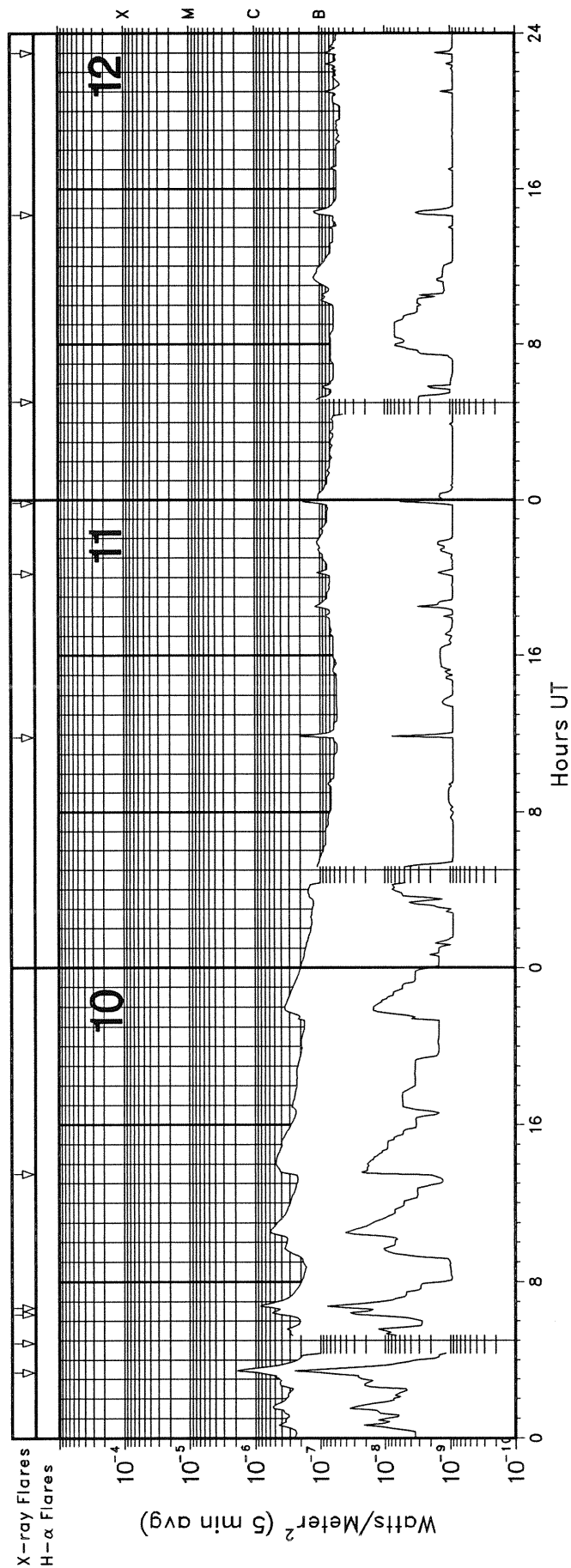
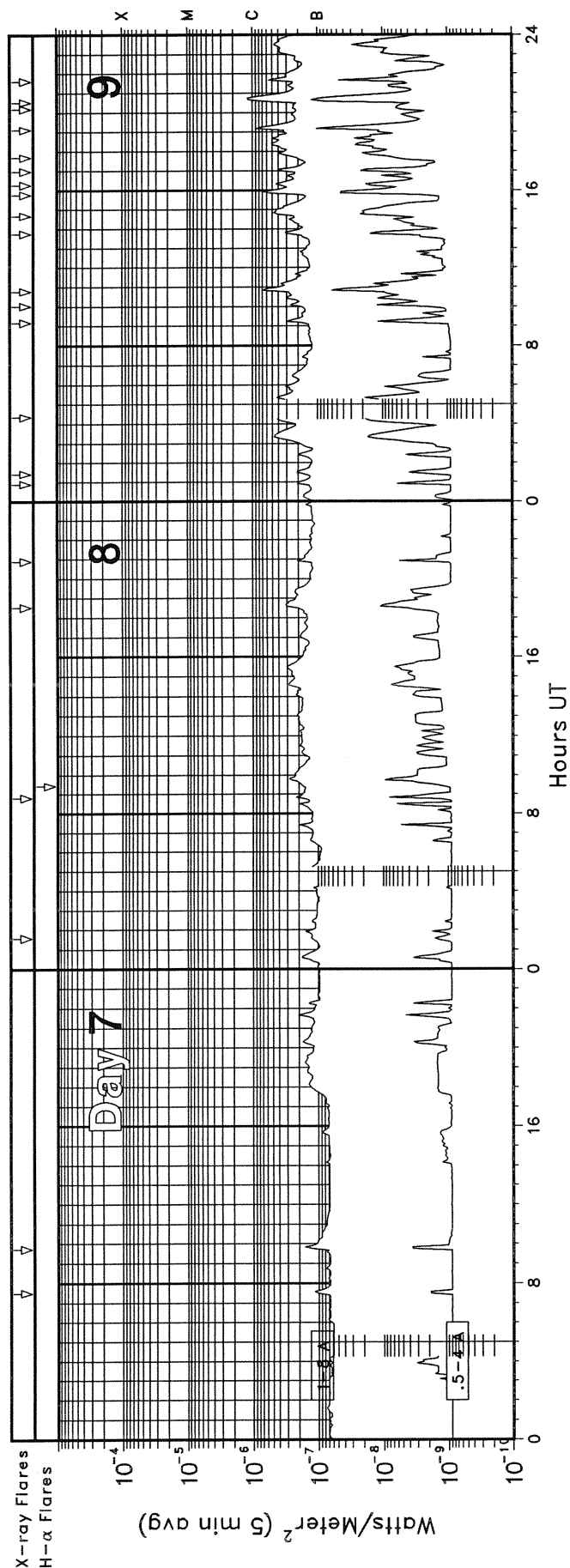
RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; and Hiraiso, Japan 500 and 200 MHz.

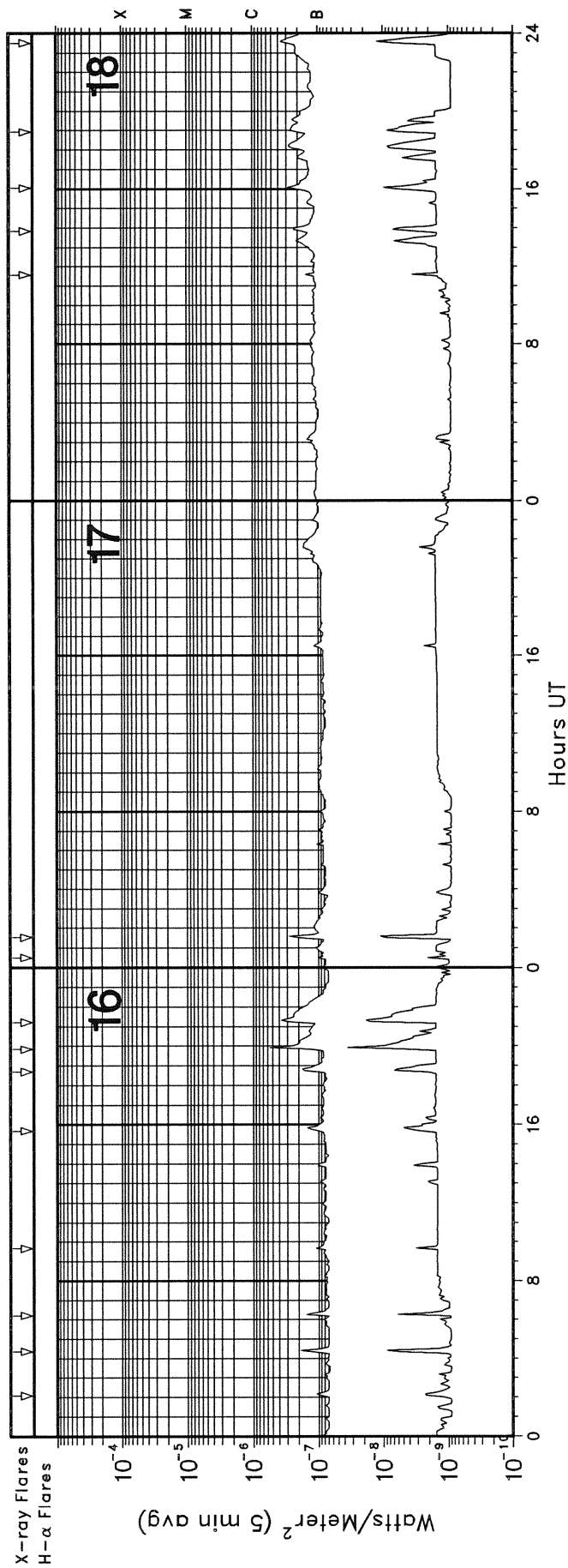
GOES X-RAY DETECTOR
October 2004



GOES X-RAY DETECTOR

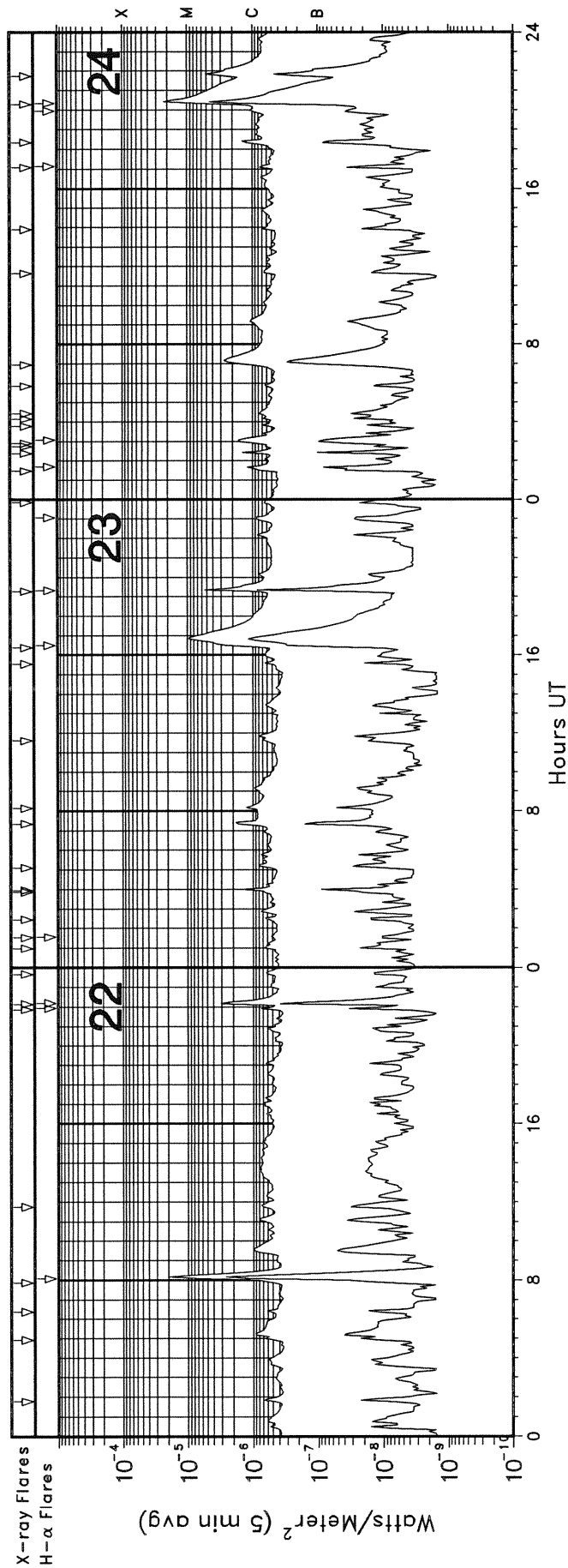
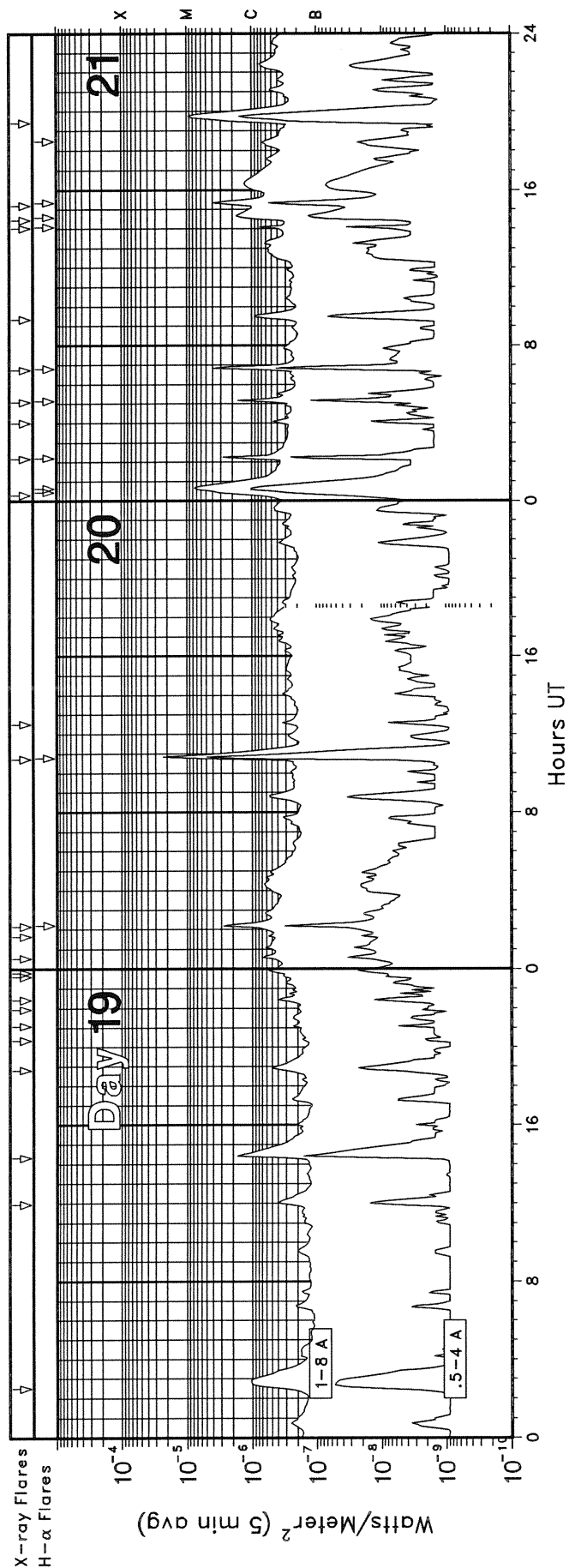
October 2004



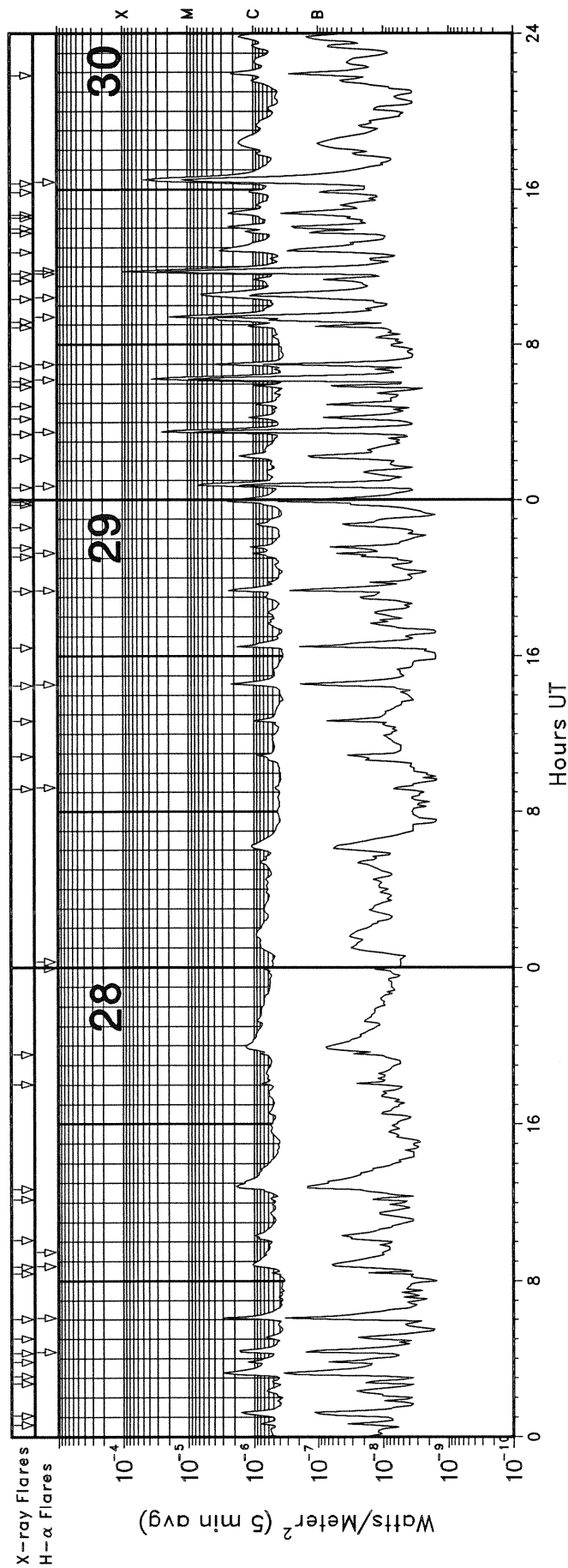
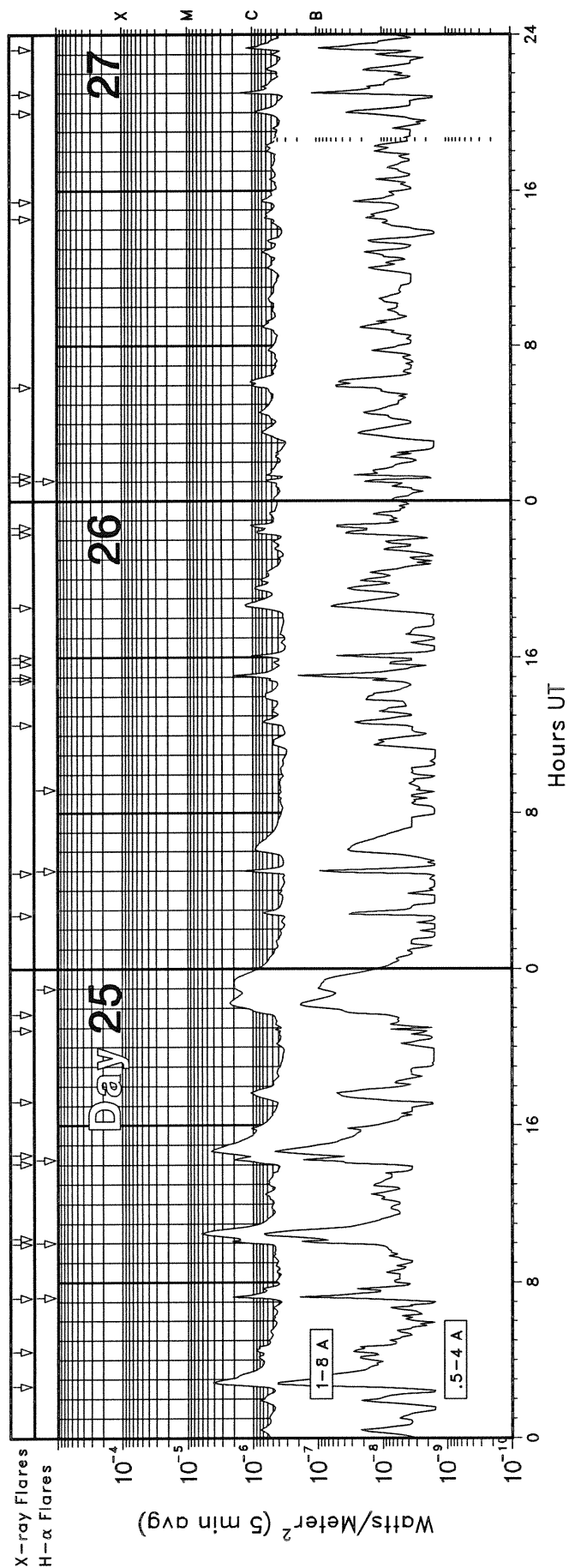


GOES X-RAY DETECTOR

October 2004

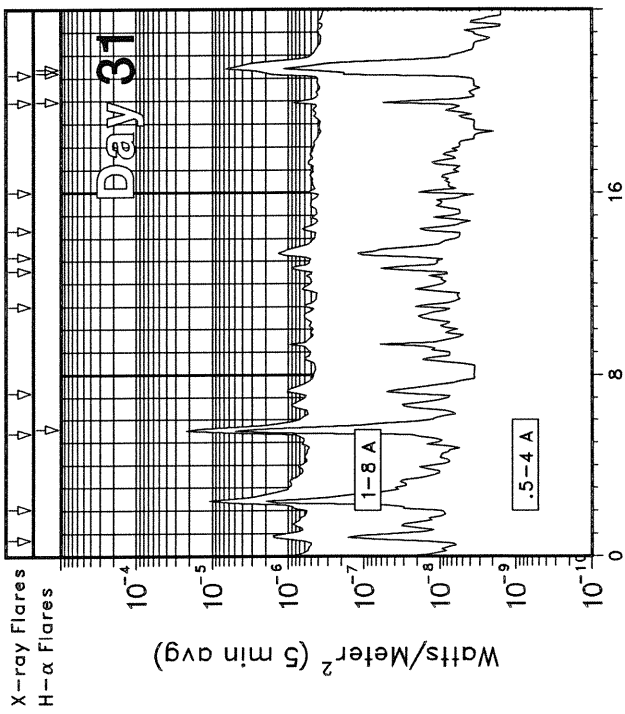


GOES X-RAY DETECTOR October 2004



GOES X-RAY DETECTOR

October 2004



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Oct 04

GOES SOLAR X-RAY FLARES
Preliminary Listing

October 2004

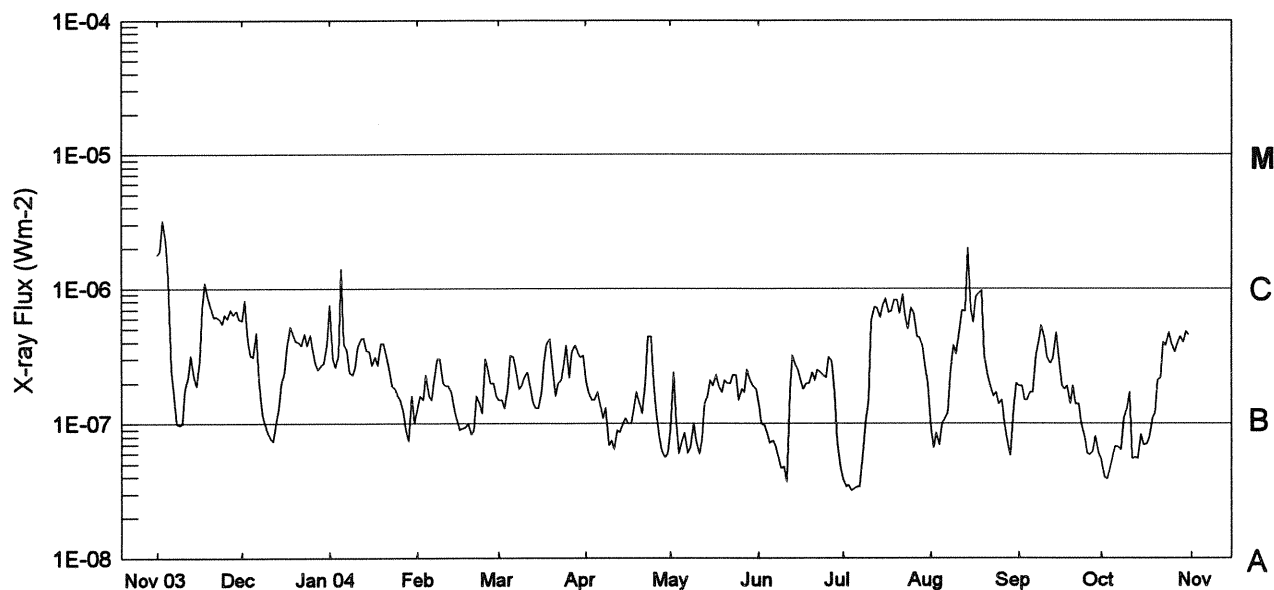
Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	Flux	NOAA/ USAF Region
02	1327	1332	1342				B1.5	1.0E-04	10675
02	1413	1420	1424				B1.6	8.6E-05	10675
03	1814	1818	1822				B1.1	4.6E-05	10676
03	2115	2120	2124				B3.7	1.3E-04	10676
04	0039	0045	0049				B1.2	6.3E-05	10676
04	1303	1325	1341				C2.6	3.6E-03	
04	1633	1637	1644				B1.3	8.1E-05	
04	2156	2202	2204				B3.6	1.0E-04	10678
05	0045	0056	0107				C1.4	1.2E-03	
05	1730	1734	1739				B1.0	5.0E-05	
05	2200	2204	2207				B1.5	5.3E-05	
05	2306	2317	2327				B9.0	7.6E-04	
06	0242	0249	0258				B2.3	2.0E-04	
06	1819	1834	1849				C2.5	2.9E-03	
07	0730	0734	0739				B1.3	6.1E-05	10678
07	0944	0949	0954				B1.9	8.7E-05	10675
08	0135	0138	0140				B1.4	3.7E-05	
08	0849	0852	0854				B2.9	6.6E-05	10678
08	1832	1840	1854				B3.1	3.8E-04	
08	2053	2057	2100				B2.4	8.1E-05	10678
09	0054	0058	0103				B2.4	1.1E-04	10678
09	0126	0135	0139				B2.0	1.5E-04	
09	0421	0431	0439				C1.2	1.1E-03	
09	0911	0916	0924				B3.1	2.0E-04	10680
09	1002	1009	1012				B2.7	1.4E-04	10680
09	1047	1052	1059				B8.2	4.3E-04	10680
09	1345	1349	1352				B4.4	1.4E-04	10680
09	1441	1449	1504				B5.4	5.7E-04	10680
09	1546	1555	1603				B8.0	5.3E-04	10680
09	1616	1619	1625				B4.9	2.3E-04	10680
09	1658	1705	1708				B5.0	2.3E-04	10680
09	1741	1756	1805				B4.3	4.6E-04	
09	1907	1913	1917				C1.1	4.4E-04	10680
09	2011	2014	2018				B2.7	1.0E-04	
09	2032	2044	2055				C1.2	1.2E-03	10680
09	2137	2143	2147				B6.4	2.8E-04	10680
10	0321	0328	0334				C2.0	1.2E-03	10680
10	0452	0459	0515				B3.7	4.2E-04	
10	0621	0627	0633				B5.7	3.7E-04	
10	0641	0649	0656				B8.7	6.7E-04	10680
10	1329	1406	1525				B4.9	3.0E-03	
11	1152	1156	1200				B2.6	7.8E-05	
11	2011	2016	2022				B1.1	6.7E-05	
11	2351	2356	0000				B2.0	8.3E-05	
12	0503	0507	0518				B1.1	8.7E-05	
12	1439	1449	1456				B1.3	1.1E-04	
12	2259	2304	2306				B1.1	3.4E-05	10681
13	0104	0107	0109				B1.0	2.7E-05	
13	0346	0354	0403				B4.4	3.1E-04	
13	1347	1359	1411				B5.1	5.4E-04	
13	1557	1600	1604				B1.0	3.8E-05	
13	2108	2114	2117				B2.2	9.5E-05	10682
13	2120	2206	2220				C1.0	1.9E-03	10682

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	Flux	NOAA/ USAF Region
14	0328	0349	0356				C1.7	1.4E-03	10682
14	0744	0749	0753				B3.6	1.5E-04	10682
14	0959	1004	1010				B7.8	4.2E-04	10682
14	1633	1636	1639				B1.4	4.4E-05	
14	1858	1902	1904				B1.6	4.1E-05	10682
14	1943	1952	2005				B4.1	4.2E-04	10682
15	0702	0705	0712				B1.3	7.1E-05	
15	0908	0914	0922				B1.8	1.4E-04	
15	1106	1109	1113				B1.3	4.7E-05	
15	1216	1222	1227				B2.9	1.4E-04	
15	1523	1532	1543				B2.7	2.5E-04	
16	0205	0211	0216				B1.1	6.7E-05	
16	0422	0425	0429				B2.2	7.6E-05	
16	0613	0618	0621				B2.1	6.7E-05	
16	0940	0943	0945				B1.3	3.4E-05	
16	1541	1552	1555				B1.5	1.1E-04	
16	1842	1849	1857				B1.8	1.4E-04	
16	1950	1956	2000				B6.6	2.2E-04	
16	2113	2120	2129				B4.0	2.9E-04	
17	0030	0033	0035				B1.3	3.1E-05	
17	0131	0134	0137				B4.7	1.1E-04	
18	1134	1137	1139				B2.2	4.5E-05	
18	1350	1400	1405				B2.3	1.8E-04	
18	1602	1606	1610				B2.9	1.3E-04	
18	1855	1902	1924				B2.5	4.1E-04	
18	2330	2336	2346				B3.6	3.1E-04	10682
19	0230	0254	0310				C1.0	2.1E-03	10682
19	1157	1204	1214				B3.9	3.6E-04	
19	1419	1428	1437				C1.9	1.2E-03	10682
19	1849	1857	1904				B5.1	3.9E-04	10682
19	2021	2025	2027				B2.3	6.3E-05	10682
19	2105	2108	2110				B3.0	7.3E-05	10682
19	2156	2159	2201				B2.3	6.0E-05	
19	2225	2229	2231				B4.7	1.5E-04	10682
19	2336	2339	2342				B3.9	1.2E-04	
19	2347	2357	2403				B5.8	4.5E-04	10682
20	0032	0036	0043				B7.2	4.1E-04	10682
20	0138	0141	0145				B6.2	2.3E-04	
20	0209	0213	0216	S13	W23	SF	C4.5	1.1E-03	10682
20	1043	1051	1056				M2.6	1.0E-02	10687
20	1231	1236	1240				B3.6	1.7E-04	10682
21	0018	0040	0052				C7.8	9.6E-03	10687
21	0210	0215	0218	N11	E62	SF	C4.3	1.1E-03	10687
21	0400	0408	0411				B4.9	2.8E-04	10687
21	0505	0512	0515	N05	E60	SF	C2.0	6.8E-04	10687
21	0644	0653	0657	N11	E60	SF	C5.2	1.9E-03	10687
21	0921	0934	0941				B9.8	8.3E-04	10687
21	1401	1406	1408	N08	E54	SF	B9.9	2.8E-04	10687
21	1427	1442	1504	S14	W43	SF	C1.7	2.8E-03	10682
21	1512	1522	1527	S12	W40	SF	C4.3	2.5E-03	10682
21	1924	1948	1956				C9.9	1.0E-02	10687
22	0146	0153	0158	N09	E47	SF	B6.8	4.3E-04	10687
22	0455	0517	0533				B9.4	1.6E-03	10682
22	0622	0625	0627				B7.3	1.9E-04	10687
22	0752	0811	0816	N09	E44	1N	M2.1	9.7E-03	10687
22	1145	1149	1152				B9.5	3.2E-04	

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Opt	Imp Xray	Flux	NOAA/ USAF Region
22	2152	2156	2158	S13	W62	SF	C1.0	2.4E-04	10682
22	2209	2213	2216	N15	E45	SF	C5.1	1.3E-03	10687
22	2340	2343	2352				B6.3	4.3E-04	
23	0059	0103	0108				B8.0	3.5E-04	10687
23	0131	0134	0138	S07	W03	SF	B6.1	2.2E-04	10684
23	0226	0230	0233				B7.5	2.7E-04	
23	0351	0354	0356				B8.5	2.1E-04	
23	0357	0400	0403				C1.8	4.5E-04	
23	0506	0515	0520				B8.6	6.2E-04	
23	0720	0724	0727				C3.2	8.6E-04	10682
23	0808	0812	0817				C1.3	6.3E-04	10682
23	1136	1139	1145				B7.4	3.7E-04	
23	1532	1536	1541				B6.8	3.2E-04	10682
23	1622	1654	1708	N11	E33	SF	C9.9	1.5E-02	10687
23	1916	1922	1924	N14	E35	SF	C8.0	1.8E-03	10687
23	2351	2354	2356				B8.5	2.2E-04	10687
24	0128	0142	0144	N12	E28	SF	C1.6	8.9E-04	10687
24	0223	0227	0230				C1.9	5.2E-04	10687
24	0245	0248	0252				B7.1	2.7E-04	10691
24	0254	0303	0313	N11	E19	SF	C1.7	1.5E-03	10687
24	0346	0352	0356				B7.1	3.8E-04	10687
24	0409	0412	0414				B8.6	2.0E-04	10687
24	0425	0428	0430				B9.5	2.4E-04	10687
24	0550	0553	0559				B7.1	3.3E-04	
24	0656	0713	0726				C2.6	3.7E-03	10691
24	1138	1143	1155				B7.0	6.3E-04	10682
24	1353	1357	1406				B7.0	4.8E-04	10682
24	1704	1709	1711	N12	E19	SF	C1.0	3.2E-04	10687
24	1821	1824	1827				C2.1	5.7E-04	10682
24	2017	2028	2035	N10	E15	1N	M2.3	1.5E-02	10687
24	2144	2151	2157				C5.5	3.1E-03	10682
25	0238	0252	0303	N15	E63	SF	C4.2	4.2E-03	10691
25	0425	0430	0434				B9.8	4.8E-04	
25	0711	0716	0720	N09	E10	SF	C2.4	8.0E-04	10687
25	0957	1007	1013				C2.3	1.5E-03	10687
25	1015	1031	1042	N09	E07	SF	C6.8	6.8E-03	10687
25	1402	1417	1425				C2.1	1.7E-03	10687
25	1429	1442	1459				C4.4	5.7E-03	10687
25	1713	1742	1754				C1.1	1.9E-03	10687
25	2053	2056	2058				B5.5	1.3E-04	10691
25	2142	2217	2345				C2.3	1.2E-02	10687
26	0243	0250	0258				B7.4	5.4E-04	10687
26	0453	0501	0505	N11	W06	SF	C1.6	7.1E-04	10687
26	1233	1244	1252				B7.0	6.7E-04	
26	1450	1453	1457				B6.4	2.4E-04	10691
26	1500	1506	1510				C2.2	8.9E-04	10687
26	1541	1544	1547				B5.4	1.7E-04	
26	1600	1606	1610				C1.2	4.9E-04	
26	1833	1839	1848				C1.3	1.1E-03	1

	Start	Max	End				Imp		NOAA/ USAF
Day	(UT)	(UT)	(UT)	Lat	CMD	Opt	Xray	Flux	Region
28	0036	0040	0046				B8.7	4.2E-04	10693
28	0104	0117	0120	S13	E74	SF	C1.8	1.2E-03	10693
28	0244	0249	0254				B5.9	3.1E-04	10693
28	0306	0316	0323				C3.2	2.0E-03	10693
28	0349	0352	0354				C1.7	3.7E-04	10693
28	0417	0425	0428	S19	E72	SF	C2.2	9.9E-04	10693
28	0501	0505	0512				B6.8	4.0E-04	10693
28	0602	0606	0609	S14	E73	2F	C3.8	1.0E-03	10693
28	0823	0826	0829				B6.0	1.8E-04	10693
28	0843	0848	0904	N14	E11	SF	C1.0	1.2E-03	10691
28	1006	1021	1030				B9.6	1.2E-03	10693
28	1211	1214	1216				B8.0	1.9E-04	10693
28	1242	1249	1306				C1.9	2.2E-03	10693
28	1802	1805	1808				B9.0	2.6E-04	10687
28	1933	1936	1938				C1.0	2.3E-04	10693
29	0911	0914	0917				B5.7	1.8E-04	10687
29	1051	1055	1057				C1.1	3.1E-04	10693
29	1240	1243	1245				C1.4	3.3E-04	10693
29	1430	1436	1441	S12	E48	SF	C2.4	1.1E-03	10693
29	1626	1633	1635				C2.8	6.8E-04	10693
29	1919	1922	1926	S13	E50	SF	C3.4	9.7E-04	10693
29	2104	2116	2120	N12	W14	SF	C1.1	7.3E-04	10691
29	2133	2136	2138				C1.4	3.3E-04	10693
29	2236	2246	2249				C1.0	5.9E-04	10693
29	2345	2349	2352				B9.7	3.2E-04	10691
29	2353	2359	2405				C3.1	1.7E-03	10691
30	0039	0049	0053	N14	W13	SF	C9.7	3.9E-03	10691
30	0209	0216	0222				C1.6	1.0E-03	
30	0323	0333	0337	N14	W15	SF	M3.3	1.1E-02	10691
30	0411	0416	0421				C1.2	5.7E-04	
30	0451	0456	0503				B9.2	5.3E-04	
30	0550	0555	0559				C1.1	4.4E-04	
30	0608	0618	0622	N14	W21	SF	M4.2	1.6E-02	10691
30	0655	0701	0705	N16	W22	SF	C5.5	1.7E-03	10691
30	0853	0858	0901				C1.6	5.3E-04	
30	0909	0928	0930	N15	W23	1N	M3.7	9.0E-03	10691
30	1020	1035	1041				C7.2	4.8E-03	10691
30	1117	1122	1127				C1.0	5.3E-04	10691
30	1138	1146	1150	N12	W18	SF	X1.2	3.7E-02	10691
30	1245	1251	1303				C3.7	2.5E-03	10687
30	1344	1350	1354				C1.5	7.0E-04	
30	1359	1406	1410				C2.6	1.3E-03	10691
30	1431	1435	1437				B9.8	3.1E-04	
30	1441	1448	1453				C2.6	1.4E-03	
30	1551	1554	1557				C1.4	4.6E-04	
30	1618	1633	1637	N15	W20	SN	M5.9	2.8E-02	10691
30	2151	2159	2204				C2.4	1.4E-03	10691
31	0042	0055	0101				C1.7	1.4E-03	10691
31	0204	0226	0232				M1.1	6.9E-03	10691
31	0523	0532	0539	N13	W34	SF	M2.3	1.3E-02	10691
31	0711	0721	0730				C1.0	1.1E-03	10693
31	1100	1103	1109				B6.8	3.3E-04	10691
31	1233	1244	1249				B9.1	7.6E-04	
31	1311	1321	1335				C1.3	1.6E-03	
31	1420	1425	1433				B6.5	4.7E-04	
31	1600	1604	1606				B7.5	2.1E-04	
31	1955	1959	2001	N12	W44	SF	C1.5	3.3E-04	10691
31	2108	2127	2138	N15	W35	SF	C7.0	6.4E-03	10691

Preliminary GOES Satellite Daily X-Ray Background Nov 2003 - Oct 2004



Day	Nov 03	Dec	Jan 04	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1	C1.8	B5.8	B7.5	B1.3	B1.5	B2.1	A9.1	B1.4	A3.9	A9.1	B1.9	A4.0
2	C1.9	B8.1	B3.0	B1.6	B1.5	B1.7	B2.4	B1.0	A3.4	A6.6	B1.9	A3.9
3	C3.2	B4.1	B2.6	B1.5	B1.3	B1.5	B1.0	A9.7	A3.5	A8.5	B1.5	A4.5
4	C2.3	B3.2	B3.2	B2.3	B1.8	B1.5	A6.0	A8.5	A3.2	A7.0	B1.5	A5.7
5	C1.2	B3.1	C1.4	B1.6	B3.2	B1.7	A7.5	A7.2	A3.3	B1.0	B1.7	A6.8
6	B2.5	B4.7	B3.9	B1.5	B3.1	B1.4	A8.5	A7.5	A3.4	B1.1	B1.7	A6.8
7	B1.6	B2.1	B3.5	B2.1	B2.5	B1.1	A6.1	A6.9	A3.4	B1.2	B3.2	A6.4
8	B1.0	B1.2	B2.4	B3.0	B1.8	B1.3	A6.6	A5.5	A5.9	B2.3	B4.0	B1.1
9	A9.7	B1.0	B2.3	B3.0	B1.9	A6.9	B1.0	A4.7	B1.0	B3.8	B5.3	B1.3
10	B1.0	A8.7	B2.6	B2.0	B2.2	A7.5	A7.3	A4.8	B1.5	B3.3	B4.3	B1.7
11	B1.8	A7.7	B3.7	B1.9	B2.4	A6.5	A6.0	A3.7	B5.7	B4.9	B3.1	A5.5
12	B2.2	A7.4	B4.2	B1.9	B1.9	A8.9	A7.6	B1.7	B7.3	B6.9	B2.8	A5.6
13	B3.2	A9.7	B4.3	B1.7	B1.4	A8.6	B1.4	B3.2	B7.2	B6.8	B3.0	A5.5
14	B2.2	B1.3	B3.5	B1.3	B1.3	B1.0	B1.6	B2.8	B6.1	C2.0	B4.7	A8.3
15	B1.9	B2.0	B3.4	B1.1	B1.3	B1.1	B2.1	B2.5	B7.5	B7.0	B3.2	A7.0
16	B2.9	B2.4	B2.7	A9.0	B1.7	B1.0	B1.9	B2.1	B8.4	B5.6	B1.9	A7.1
17	B7.2	B3.8	B3.1	A9.2	B2.9	B1.0	B2.3	B1.8	B6.7	B8.7	B1.8	A7.9
18	C1.1	B5.2	B2.7	A9.4	B3.9	B1.3	B1.9	B2.0	B6.8	B9.2	B1.9	B1.1
19	B8.4	B4.6	B3.9	B1.0	B4.2	B1.7	B1.7	B2.0	B8.2	B9.7	B1.4	B1.2
20	B7.3	B4.1	B3.9	A8.3	B2.7	B1.4	B2.1	B2.4	B8.2	B3.2	B1.9	B2.1
21	B6.1	B4.0	B3.3	A8.9	B1.6	B1.2	B2.0	B2.1	B6.5	B2.3	B1.4	B2.2
22	B6.2	B3.8	B2.5	B1.6	B2.0	B2.0	B2.0	B2.5	B9.1	B1.9	B1.4	B4.0
23	B5.9	B4.6	B1.9	B1.4	B2.1	B4.4	B2.3	B2.4	B6.2	B1.6	A9.8	B3.8
24	B5.5	B3.8	B1.8	B1.2	B2.7	B4.4	B2.3	B2.3	B5.0	B1.7	A8.1	B4.7
25	B6.4	B4.5	B1.6	B3.0	B3.8	B2.0	B1.5	B2.2	B7.2	B1.4	A6.1	B3.9
26	B6.0	B3.5	B1.5	B2.5	B2.2	B1.2	B1.8	B3.1	B6.6	B1.5	A5.9	B3.4
27	B7.0	B2.8	B1.2	B2.0	B3.4	A7.8	B1.7	B2.9	B4.4	B1.0	A6.2	B3.9
28	B6.4	B2.5	A8.7	B2.0	B3.8	A6.2	B2.5	B1.7	B4.3	A7.1	A8.1	B4.4
29	B6.8	B2.7	A7.5	B1.6	B3.4	A5.6	B2.1	A7.3	B3.7	A5.8	A6.1	B4.0
30	B5.9	B2.8	B1.6		B3.1	A6.0	B1.9	A4.8	B2.6	B1.3	A5.4	B4.8
31		B3.9	B1.0		B3.2		B1.8		B2.0	B2.0		B4.5

Levels below B1.0 are unreliable.

ACTIVE PROMINENCES AND FILAMENTS

35
Oct 04

OCTOBER 2004

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
03	DSF	0017	0047	S13	W12	10	2.1	3	07	0	0	E	LEAR	0675	
05	LPS	0057E	0125D	S14	E90	10	11.8			0	0	E	LEAR		
05	DSF	2348U	1408U	N12	W11	10	5.2		14	0	0	E	HOLL		
07	BSL	0903	0925	S10	E90	10	14.1	1	03	9	9	V	KHAR		
08	DSF	2127U	1337U	N13	E40	10	11.9		16	0	0	E	HOLL		
23	EPL	0215	0600	S20	E90	10	30.0	3		8	8	E	LEAR		
24	DSF	0925U	2242U	N19	E35	10	27.1		15	0	0	E	LEAR		
28	DSF	2307U	1346U	S12	E25	10	30.8		10	0	0	E	HOLL		

ADF = Active Dark Filament
 AFS = Arch Filament System
 APR = Active Prominence
 ASR = Active Surge Region
 BSD = Bright Surge on Disk

BSL = Bright Surge on Limb
 CAP = CAP Prominence (Tandberg-Hanssen)
 CRN = Coronal Rain
 DSD = Dark Surge on Disk
 DSF = Disappearing Solar Filament

EPL = Eruptive Prominence on Limb
 LPS = Loops
 MDP = Mound Prominence
 SDF/DSF = Sudden Disappearing Filament
 SPY = Spray
 SSB = Solar Sector Boundary

For SOLAR SECTOR BOUNDARY REPORTS, the latitude field contains the Carrington longitude of the point where a neutral line crosses the solar equator. The comments field may contain the Carrington longitude and central meridian distance of two more intersection points.

The EXTENT field for limb events is the radial extent above the limb in hundredths of solar radius. For disk events this field contains the heliographic extent in whole degrees.

The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
 The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

Observation Type: C= Cinematographic, E= Electronic, P= Photographic, V= Visual.

ABST = Abastumani
 ATHN = Athens
 BUCA = Bucharest
 CATA = Catania

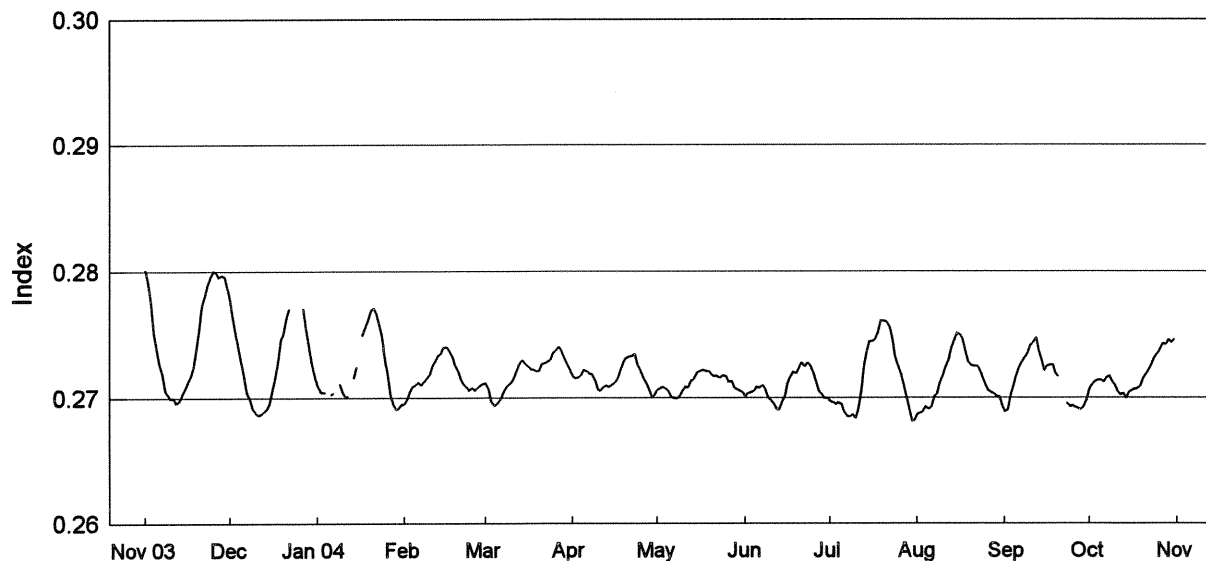
HOLL = Holloman
 KHAR = Kharkov
 LEAR = Learmonth
 PALE = Palehua

RAMY = Ramey
 SVTO = San Vito
 VORO = Voroshilov
 VALA = Valasske Mezirici
 WROC = Wroclaw

NOTE: The U.S. Air Force solar observing sites (HOLL, LEAR, RAMY, AND SVTO) have changed operational requirements and will only report the following: BSL, EPL, LPS, SPY, and DSF's.

NOAA Solar Ultraviolet (UV) MgII Core-to-Wing Index

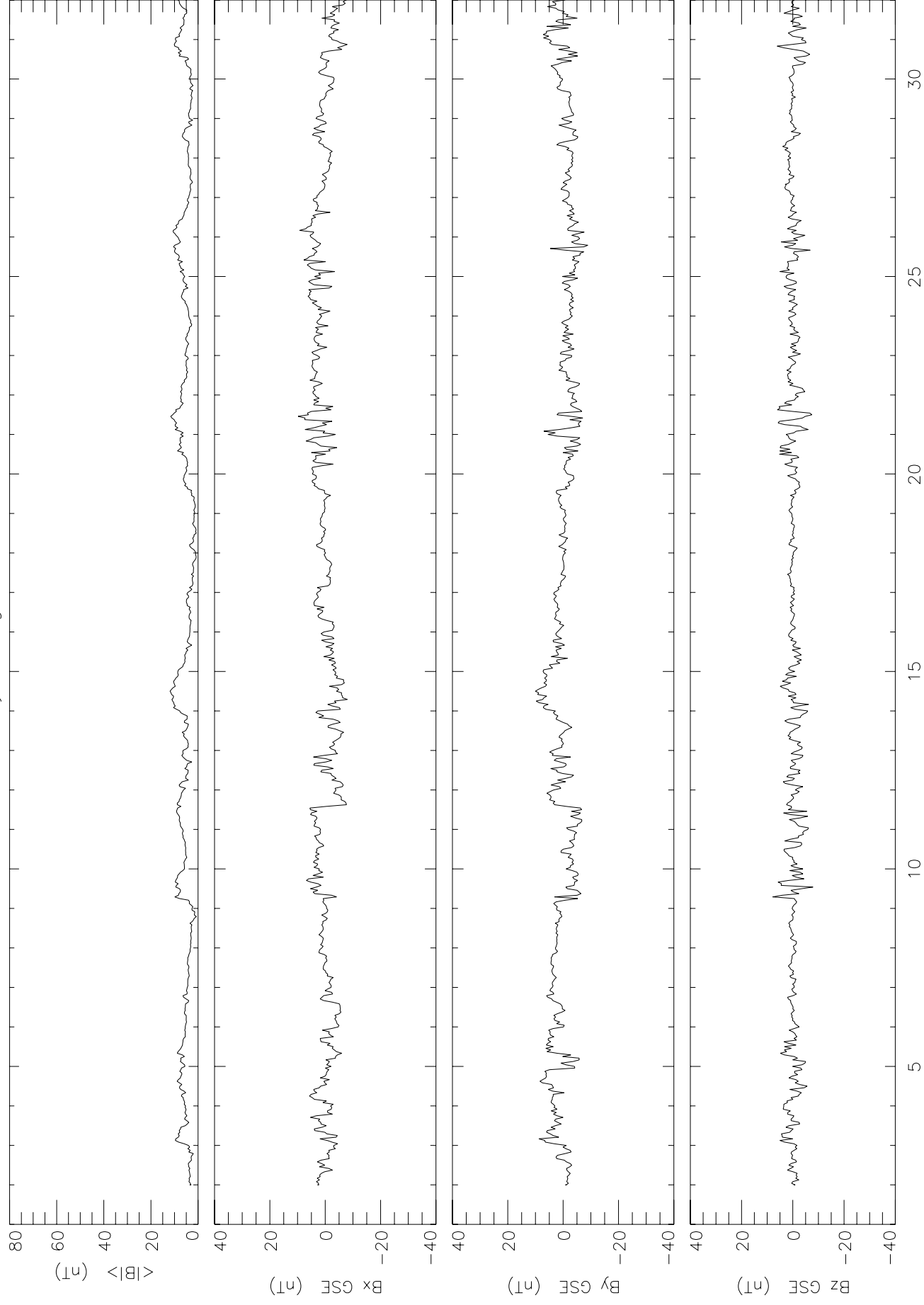
Sep 2003 - Oct 2004
Version 9.1



Day	Nov 03	Dec	Jan 04	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1	0.2801	0.2777	0.2711	0.2695	0.2712	0.2717	0.2706	0.2701	0.2697	0.2686	0.2689	0.2707
2	0.2792	0.2764	0.2705	0.2699	0.2707	0.2716	0.2708	0.2704	0.2697	0.2688	0.2690	0.2711
3	0.2774	0.2750	0.2704	0.2705	0.2696	0.2716	0.2709	0.2705	0.2695	0.2689	0.2701	0.2713
4	0.2752	0.2740	0.2704	0.2709	0.2694	0.2718	0.2707	0.2706	0.2696	0.2693	0.2709	0.2715
5	0.2738	0.2730	—	0.2711	0.2695	0.2723	0.2705	0.2709	0.2695	0.2691	0.2717	0.2714
6	0.2727	0.2717	0.2703	0.2713	0.2698	0.2721	0.2701	0.2708	0.2689	0.2692	0.2724	0.2712
7	0.2719	0.2704	0.2705	0.2710	0.2703	0.2719	0.2700	0.2710	0.2686	0.2701	0.2728	0.2717
8	0.2706	0.2699	—	0.2713	0.2707	0.2719	0.2700	0.2707	0.2684	0.2703	0.2732	0.2718
9	0.2702	0.2691	0.2711	0.2715	0.2710	0.2714	0.2702	0.2700	0.2686	0.2711	0.2735	0.2713
10	0.2700	0.2688	0.2703	0.2719	0.2712	0.2707	0.2706	0.2698	0.2683	0.2718	0.2742	0.2709
11	0.2700	0.2686	0.2701	0.2725	0.2715	0.2705	0.2709	0.2695	0.2690	0.2724	0.2743	0.2704
12	0.2696	0.2687	0.2701	0.2730	0.2721	0.2708	0.2708	0.2691	0.2706	0.2730	0.2748	0.2702
13	0.2698	0.2688	—	0.2734	0.2727	0.2710	0.2714	0.2691	0.2726	0.2739	0.2737	0.2703
14	0.2702	0.2691	0.2716	0.2735	0.2730	0.2709	0.2715	0.2696	0.2736	0.2746	0.2729	0.2700
15	0.2707	0.2694	0.2725	0.2740	0.2727	0.2710	0.2720	0.2701	0.2745	0.2752	0.2721	0.2705
16	0.2712	0.2706	—	0.2741	0.2725	0.2712	0.2721	0.2711	0.2745	0.2750	0.2725	0.2706
17	0.2717	0.2716	0.2750	0.2738	0.2723	0.2715	0.2723	0.2718	0.2746	0.2747	0.2727	0.2707
18	0.2724	0.2730	0.2756	0.2733	0.2723	0.2721	0.2722	0.2721	0.2752	0.2737	0.2726	0.2708
19	0.2737	0.2746	0.2762	0.2727	0.2722	0.2727	0.2722	0.2720	0.2761	0.2728	0.2719	0.2709
20	0.2754	0.2706	0.2770	0.2722	0.2721	0.2732	0.2719	0.2724	0.2761	0.2726	0.2717	0.2715
21	0.2773	0.2764	0.2772	0.2716	0.2727	0.2733	0.2717	0.2728	0.2760	0.2726	—	0.2719
22	0.2780	0.2771	0.2767	0.2711	0.2728	0.2734	0.2718	0.2725	0.2756	0.2726	—	0.2722
23	0.2789	—	0.2757	0.2708	0.2729	0.2735	0.2716	0.2728	0.2747	0.2722	0.2695	0.2727
24	0.2795	—	0.2749	0.2706	0.2731	0.2726	0.2718	0.2726	0.2733	0.2717	0.2693	0.2732
25	0.2801	0.2781	0.2732	0.2708	0.2736	0.2722	0.2718	0.2720	0.2727	0.2710	0.2694	0.2736
26	0.2799	—	0.2718	0.2706	0.2738	0.2716	0.2713	0.2714	0.2719	0.2706	0.2692	0.2739
27	0.2795	0.2771	0.2702	0.2708	0.2741	0.2712	0.2713	0.2705	0.2712	0.2705	0.2692	0.2743
28	0.2797	0.2756	0.2694	0.2710	0.2738	0.2707	0.2708	0.2703	0.2701	0.2704	0.2690	0.2743
29	0.2796	0.2741	0.2691	0.2711	0.2732	0.2701	0.2707	0.2700	0.2692	0.2702	0.2693	0.2746
30	0.2786	0.2729	0.2691		0.2727	0.2702	0.2706	0.2700	0.2681	0.2701	0.2699	0.2744
31		0.2717	0.2695		0.2723		0.2705		0.2681	0.2694		0.2747
Mean	0.2749	0.2728	0.2722	0.2717	0.2720	0.2717	0.2711	0.2709	0.2716	0.2715	0.2715	0.2719

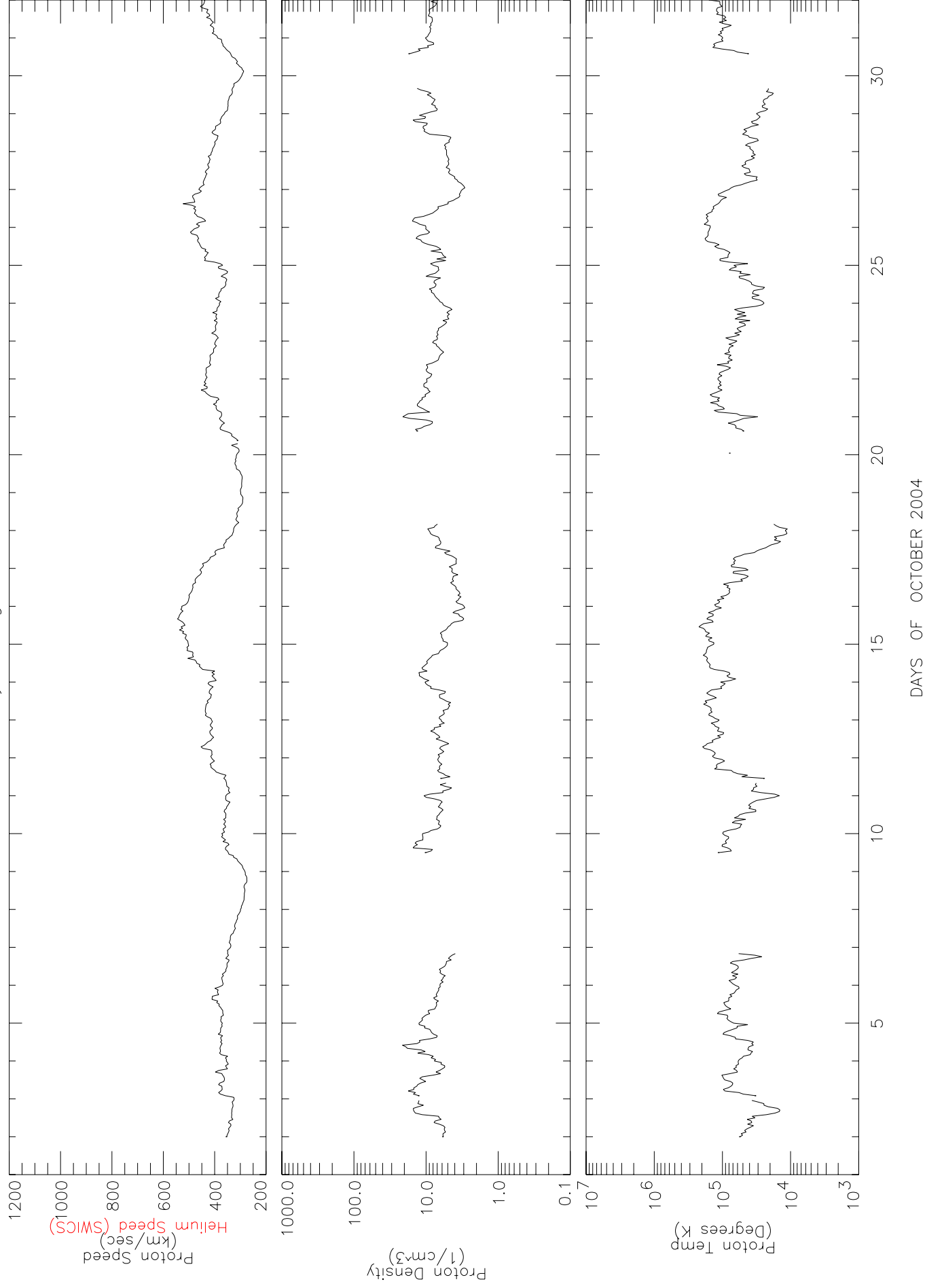
Data at: <http://www.sec.noaa.gov/ftpmenu/sbuw.html>

ACE LEVEL2 DATA Interplanetary Magnetic Field
Hourly Averages for OCTOBER 2004, from MAG

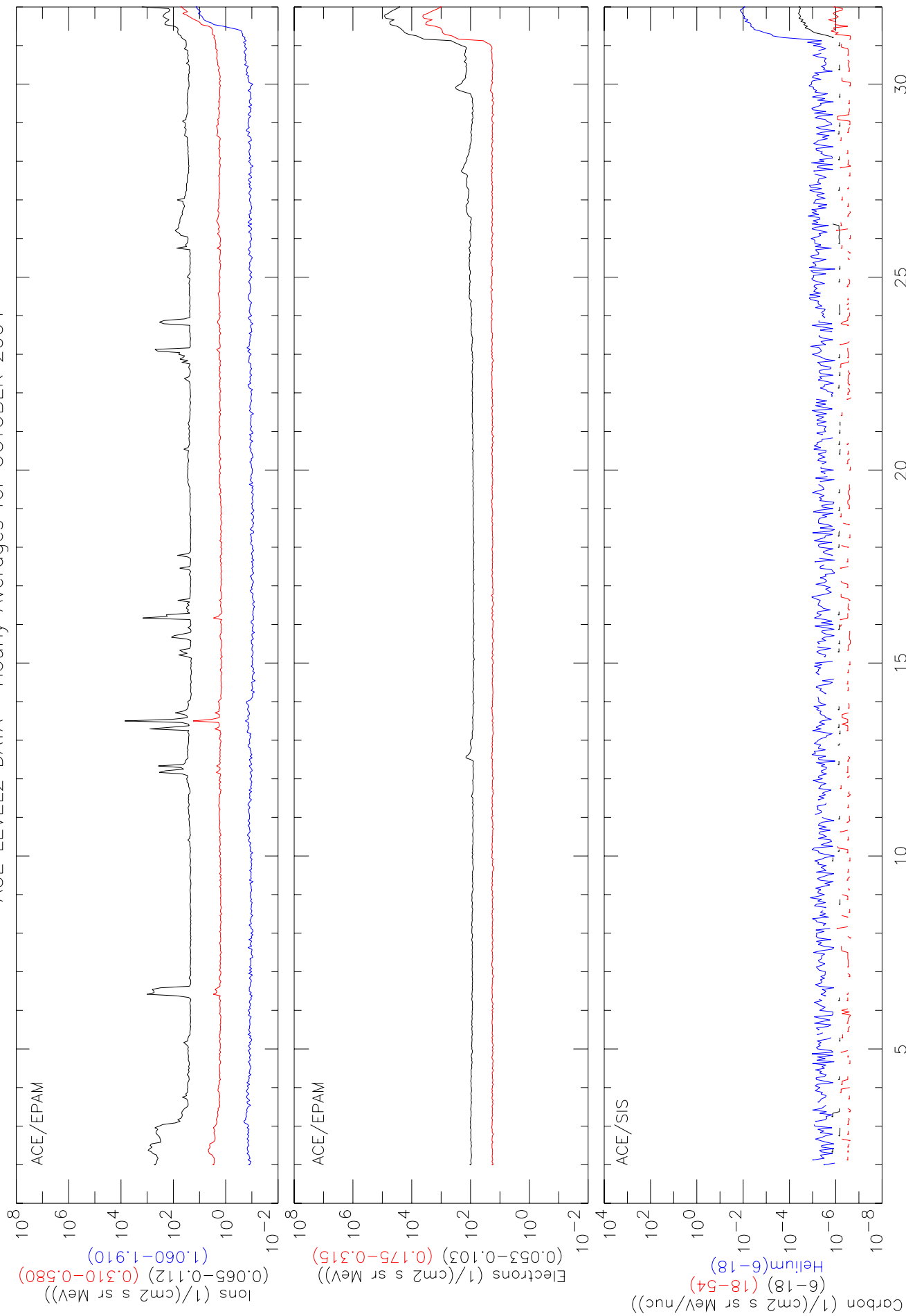


DAYS OF OCTOBER 2004

ACE LEVEL2 DATA Solar Wind Plasma Hourly Averages for OCTOBER 2004, from SWEPM



Solar Energetic Particles
ACE LEVEL2 DATA Hourly Averages for OCTOBER 2004



SOLAR CORONAL MASS EJECTIONS (CMEs) FROM SOHO/LASCO

<http://cdaw.gsfc.nasa.gov/>

Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA
OCTOBER 2004

First C2 Appearance		Central Width		Linear Fit		—2nd order speed—		Accel m/s ²	Measurement	Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s		Position Angle degree	
2004/10/01	13:36:05	247	26	210	67	343	608	16.7	251	
2004/10/02	04:12:05	75	23	149	133	166	490	9.2	74	Only C2
2004/10/02	20:48:05	101	59	264	136	404	490	9.0	109	
2004/10/03	14:00:05	227	68	253	272	231	0	-3.5	224	
2004/10/03	17:24:06	58	15	774	778	770	767	-0.7	58	
2004/10/04	13:54:07	96	47	594	591	597	598	0.4	101	
2004/10/04	18:06:31	40	13	586	273	898	1393	78.7	38	
2004/10/05	23:55:28	101	26	286	145	442	566	12.3	98	
2004/10/05	23:55:28	266	47	196	195	197	204	0.2	266	
2004/10/06	04:55:12	33	12	296	222	362	985	38.8	31	Only 3 points/C2
2004/10/06	12:59:18	306	19	336	337	334	331	-0.2	300	
2004/10/06	19:57:31	96	54	337	319	353	364	1.4	103	
2004/10/07	19:30:05	210	87	189	157	220	255	1.7	216	
2004/10/07	19:54:05	171	33	360	378	341	334	-1.4	176	
2004/10/08	02:54:14	242	25	282	187	383	1172	54.8	247	Only 3 points/C2
2004/10/08	18:06:44	252	6	424	519	330	0	-33.0	251	Only 3 points
2004/10/09	05:55:10	43	5	----	----	----	----	-----	47	Only 1 points/C2
2004/10/09	18:06:44	105	36	144	191	95	0	-4.6	104	
2004/10/10	11:00:32	298	43	303	331	275	0	-5.9	301	
2004/10/10	12:54:34	260	5	308	466	167	0	-29.7	259	Only 3 points
2004/10/10	21:54:05	298	45	197	300	99	0	-20.0	299	
2004/10/11	00:06:06	118	10	376	341	415	416	2.4	118	
2004/10/11	06:30:05	302	43	229	211	248	318	2.4	301	
2004/10/11	09:54:33	275	8	348	192	494	1423	81.3	279	Only C2
2004/10/11	11:30:20	106	25	129	----	----	----	-----	110	Only 2 points,
2004/10/11	12:30:19	286	34	468	553	392	0	-13.9	275	Only C2
2004/10/11	20:30:06	280	20	408	412	405	394	-0.6	276	
2004/10/11	21:54:05	105	30	209	203	215	325	2.6	107	Only C2
2004/10/12	06:30:05	285	33	255	463	0	0	-35.9	285	
2004/10/12	10:54:33	104	24	199	259	140	0	-28.2	104	Only C2
2004/10/12	12:06:18	276	11	484	483	485	486	0.1	276	
2004/10/13	00:30:06	15	18	560	824	320	0	-116.6	18	Only 3 points
2004/10/13	03:54:22	48	34	250	260	239	219	-0.8	44	
2004/10/13	08:06:21	273	7	477	520	434	0	-29.9	275	Only 3 points/C2 Partial Halo
2004/10/13	21:33:14	346	>161	488	476	498	559	3.5	321	
2004/10/14	00:54:05	114	36	214	333	86	0	-17.5	112	
2004/10/14	14:30:18	123	36	236	255	214	0	-2.9	116	
2004/10/14	18:06:20	53	68	434	508	363	0	-12.7	69	
2004/10/14	23:30:05	104	25	218	127	313	652	18.4	98	
2004/10/15	07:54:32	114	58	437	376	505	533	6.1	106	
2004/10/15	16:06:20	267	68	135	155	112	0	-1.6	270	
2004/10/15	18:54:34	19	91	42	9	70	158	1.0	32	

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Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA
OCTOBER 2004

First C2 Appearance		Central Width				—2nd order speed—		Measurement		Remarks
Date	Time UT	Position Angle degree	Angular Width degree	Linear Fit Speed km/s	Initial km/s	Final km/s	20R km/s	Accel m/s ²	Position Angle degree	
2004/10/16	03:54:08	294	40	116	0	217	227	2.7	290	Only C3
2004/10/16	15:54:32	266	40	202	288	91	0	-39.4	261	Only C2
2004/10/16	21:54:05	43	39	351	312	397	414	3.1	41	
2004/10/17	09:30:18	121	15	253	151	357	551	11.6	117	
2004/10/17	21:30:10	97	88	214	113	307	815	27.3	87	
2004/10/18	03:54:06	221	20	582	653	510	0	-29.2	221	Only 2 points/C2
2004/10/18	12:30:18	230	8	254	----	----	----	-----	226	
2004/10/18	14:06:19	328	14	1011	796	1230	1544	72.9	324	
2004/10/18	15:06:19	327	18	756	1078	432	0	-108.7	323	
2004/10/18	15:30:20	79	60	180	245	118	0	-27.0	69	Only C2
2004/10/18	16:30:18	275	37	419	246	617	633	14.9	276	
2004/10/20	06:30:05	275	17	358	----	----	----	-----	273	Only 2 points/C2
2004/10/20	07:31:47	29	15	451	349	550	1183	55.4	36	Only C2
2004/10/20	11:06:05	86	123	764	869	663	614	-15.9	68	Partial Halo
2004/10/20	22:30:05	68	14	664	640	689	813	11.1	70	
2004/10/21	00:54:05	70	68	622	552	691	732	10.0	65	
2004/10/21	02:30:05	82	22	533	579	489	269	-10.7	80	
2004/10/21	05:30:05	61	57	692	464	896	1204	52.7	72	
2004/10/21	07:31:50	233	53	240	221	261	288	1.4	242	
2004/10/21	07:31:50	71	71	754	804	705	619	-12.3	71	
2004/10/21	09:54:05	56	31	489	541	436	401	-5.4	63	
2004/10/21	14:30:05	65	52	489	521	457	393	-4.8	74	
2004/10/21	19:54:05	310	43	325	250	403	560	10.6	309	
2004/10/21	19:54:05	65	79	670	720	614	627	-5.3	41	
2004/10/22	02:30:05	60	31	354	459	247	0	-17.5	63	
2004/10/22	08:30:05	97	>144	536	581	489	483	-4.2	61	Partial Halo
2004/10/23	01:31:52	46	14	1203	495	1922	3399	513.8	51	
2004/10/23	05:54:06	99	61	468	215	737	628	14.4	112	
2004/10/23	15:54:05	70	5	646	750	542	0	-42.0	68	
2004/10/23	17:30:05	51	69	524	377	668	827	22.3	72	
2004/10/24	03:30:12	346	13	----	----	----	----	-----	343	Only 1 points/C2
2004/10/24	03:54:06	26	>109	417	401	434	453	1.9	38	
2004/10/24	11:54:06	337	18	302	----	----	----	-----	341	
2004/10/24	21:30:09	56	96	408	354	464	503	5.3	74	
2004/10/25	00:30:05	104	58	418	297	538	603	11.4	92	
2004/10/26	02:54:05	77	38	382	409	356	0	-8.2	81	
2004/10/26	08:30:05	73	38	389	381	398	425	1.6	73	
2004/10/26	16:30:05	100	38	274	358	190	0	-21.7	105	
2004/10/26	16:54:05	286	30	368	415	318	0	-8.1	281	
2004/10/26	22:30:32	268	28	293	278	308	359	2.1	258	
2004/10/27	06:54:07	82	16	281	207	362	1029	43.2	86	Only 3 points/C2
2004/10/27	10:30:25	Halo	360	306	346	260	247	-2.5	62	
2004/10/28	07:31:50	83	13	320	231	412	605	13.4	80	
2004/10/28	09:30:05	300	28	302	378	223	0	-15.7	297	
2004/10/28	18:54:05	245	37	348	231	466	858	28.1	250	

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OCTOBER 2004

First C2 Appearance		Central Width				Measurement				
Date	Time UT	Position	Angular	Linear Fit	—2nd order speed—			Accel m/s ²	Position	Remarks
		Angle degree	Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s		Angle degree	
2004/10/29	05:06:05	302	43	454	543	362	0	-32.1	299	Only C2
2004/10/29	09:54:05	308	15	409	342	479	835	24.0	304	
2004/10/29	11:30:05	113	61	416	509	327	0	-23.3	98	
2004/10/30	00:30:05	108	19	424	494	348	226	-8.2	106	Only 3 points
2004/10/30	03:54:09	321	60	138	158	120	0	-2.8	317	
2004/10/30	06:54:05	Halo	360	422	189	653	797	25.9	270	
2004/10/30	09:54:05	265	74	552	964	142	0	-78.9	272	
2004/10/30	12:30:06	Halo	360	427	295	564	614	12.4	269	
2004/10/30	16:54:05	Halo	360	690	943	427	419	-30.2	268	
2004/10/30	19:54:05	105	7	406	309	501	1000	37.2	103	
2004/10/31	01:31:48	309	21	686	513	880	972	28.1	306	Only 3 points/C2
2004/10/31	03:30:11	111	12	366	428	308	0	-18.2	110	
2004/10/31	06:30:30	251	62	265	228	304	482	7.6	250	
2004/10/31	17:30:05	112	23	453	522	387	0	-11.5	107	
2004/10/31	20:30:05	262	22	468	587	355	0	-22.5	263	
2004/10/31	22:30:05	260	58	350	179	532	1545	97.9	263	

If you use data from this catalog, please acknowledge as follows:

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CME heights are measured at the fastest segment of the leading edge

PA= Position Angle measured from Solar North in degrees (Counter clockwise)

ONLINE – Click on date to view java script movies

ONLINE – Click on time to see height-time digital files

ONLINE – Click on speed to view height-time plot

Numbers in 2nd order fit columns correspond to the speed at the last height of measurement and at a distance of 20 solar radii.